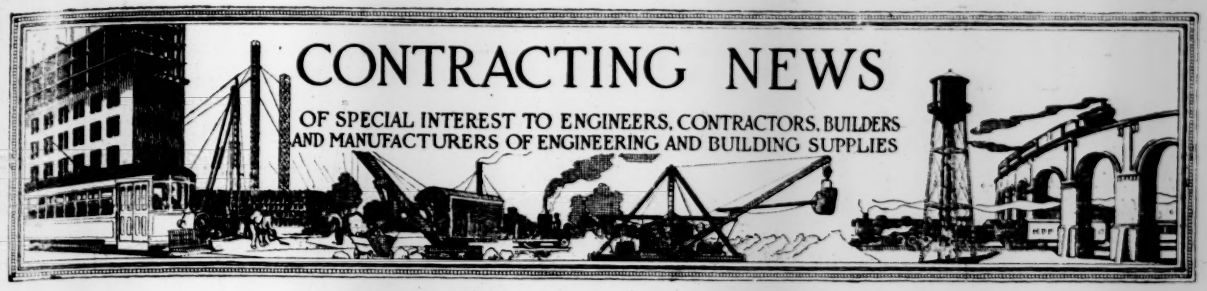
CONTRACTING NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Price advances are indicated by heavy type; declines by *italics*.

PIG IRON

Below are the present quotations with a comparison of a month and a year ago.

	July 31, 1917	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry....	**$49.90**	$47.90	$16.90 to 17.90
No. 2 Northern foundry....	**56.26**	....	19.76 to 20.26
NEW YORK			
No. 2X Northern foundry..	**54.25**	50.25	19.70 to 20.25
No. 2 plain Northern foundry	**53.75**	49.25	19.50 to 20.00
No. 2 Southern foundry†...	**52.75**	49.25	19.50 to 20.00
BIRMINGHAM			
No. 2 Southern foundry....	**47.00**	45.00	14.00
CHICAGO			
No. 2 Northern foundry....	55.00	55.00	19.00
PITTSBURGH			
Bessemer iron*	55.95	55.95	21.00
Basic iron*	**53.95**	50.00	18.00

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered Tidewater, New York.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	July 31, 1917	One Year Ago	July 31, 1917	One Year Ago
Standard bessemer rails.	$38.00	$33.00	$38.00	$33.00
Standard openhearth rails	40.00	35.00	40.00	35.00
Light rails, 8 to 10 lb..	**83.00 to 84.00***	50.00	68.00	43.00
Light rails, 12 to 14 lb.	**82.00 to 83.00***	49.00	67.00	42.00
Light rails, 25 to 45 lb.	**75.00 to 80.00***	47.00	65.00	40.00

*Demand for light rails active and mills are obtaining premiums. Rerolled rails as valuable as new.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh				San
	July 31, 1917	One Year Ago	Chicago	St. Louis	Francisco
Standard railroad spikes, ⅝-in. and larger.....	**$5.00**	$2.65	$5.00	$5.75	$5.75
Track bolts	**6.75**	3.25	6.25	Premium	7.30
Standard section angle bars	3.65	2.00	4.00	Premium	4.65

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

	Material	6 In. x 8 in. by 8 Ft.	7 In. x 9 in. by 8 Ft. 6 In.
New York	Yellow Pine	$1.06 to 1.11	$1.25
St. Louis	No. 1 White Oak	1.00	.75
Chicago	White Oak	.97	.82
San Francisco..	Green	.77	*1.01*
San Francisco..	Creosoted	**1.20**	**1.62**

PIPE

PIPE—The following discounts are for carload lots f.o.b. Pittsburgh, as per basing card of July 2, 1917:

BUTT WELD

Steel			Iron		
Inches	Black	Galvanized	Inches	Black	Galvanized
¾ to 3.....	**42%**	**28%**	¾ to 1½	**33%**	**17%**

LAP WELD

2	**35%**	**22½%**	2	**26%**	**12%**
2½ to 6.....	**35%**	**22½%**	2½ to 4.....	**28%**	**15%**
7 to 12.....	**29%**	**15½%**	4½ to 6.....	**28%**	**15%**
13 and 14.....	**32½%**	....	7 to 12.....	**25%**	**12%**
15	**30%**	....			

BUTT WELD, EXTRA STRONG PLAIN ENDS

¾ to 1½.....	**40%**	**27½%**	¾ to 1½.....	**33%**	**18%**
2 to 3.....	**41%**	**28½%**			

LAP WELD, EXTRA STRONG PLAIN ENDS

2	**33%**	**21½%**	2	**27%**	**14%**
2¼ to 4.....	**36%**	**24½%**	2¼ to 4.....	**29%**	**17%**
4½ to 6.....	**35%**	**23½%**	4½ to 6.....	**28%**	**16%**
7 to 8.....	**31%**	**17½%**	7 to 8.....	**20%**	**8%**
9 to 12.....	**20%**	**16½%**	9 to 12.....	**15%**	**3%**

From warehouses at the places named the following discounts hold for steel pipe:

Black	New York	Chicago	St. Louis
¾ to 3 in. butt welded.....	38%	42.8%	**34.27%**
3½ to 6 in. lap welded.....	28%	38.8%	**27.27%**
7 to 12 in. lap welded.....	20%	35.8%	**21.27%**

Galvanized	New York	Chicago	St. Louis
¾ to 3 in. butt welded.....	22%	27.8%	**19.27%**
3½ to 6 in. lap welded.....	10%	24.8%	**13.27%**
7 to 12 in. lap welded.....	10%	20.8%	**6.27%**

Malleable fittings, Class B and C, from New York stock sell at 5 and 5% from list prices. Cast iron, standard sizes, 34 and 5%.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	New York							
	July 31, 1917	1 Mo. Ago	One Yr Ago	Birmingham	Chicago	St. Louis	San Francisco	Dallas
4 in.	$68.50	$68.50	$34.00	**$63.00**	**$68.50**	$67.00	**$75.00**	**$72.00**
6 in. and over	65.50	65.50	31.00	**60.00**	65.50	64.00	**73.00**	**69.00**

Gas pipe and 16-ft. lengths are $1 per ton extra.

SEWER PIPE—The following prices are in cents per foot for carload lots:

	New York					
Size, In.	July 31, 1917	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	**$0.111**	**$0.0725**	.....	$0.09	**$0.0675**	**$0.1032**
4	.111	.0725	.....	.10	.09	**.1032**
5	.1665	.12	.....	.135	.1125	**.1548**
6	.1665	.12	**$0.12**	.15	.135	**.1548**
8	.255	.165	.165	.21	.2025	**.215**
10	.3885	.24	.23	.315	.30	**.301**
12	.4995	.30	.33	.405	.375	**.387**
15	.666	.405	.50	.54	....	**.559**
18	.925	.57	.75	.75	.75	**.731**
20	1.11	.675	.90	.90	.9025	**.86**
22	1.48	.90	1.13	1.20	1.155	**1.118**
24	1.665	.975	1.28	1.35	1.375	**1.29**
27	2.47	1.665	1.30	....	....	**1.935**
30	2.736	2.035	1.70	....	....	**2.365**
33	3.60	2.825	2.25	....	....	**3.05**
36	4.10	2.94	2.50	....	....	**3.41**

	Denver	Seattle	Boston	City	Orleans	St. Paul
3	**$0.07**	$0.075	$0.114	$1.10	**$0.0464**	**$0.084**
5	.12	.075	.171	.145	**.0725**	**.126**
8	.19	.225	.266	.18	**.135**	**.175**
12	.31	.4125	.513	.36	**.255**	**.315**
24	**1.14**	1.75	1.71	1.35	**1.00**	**1.35**
36	**2.10**	.....	4.2025	3.25	....	**2.83**

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.:

	New York				San	
Size, In.	July 31, 1917	One Year Ago	St. Louis	Chicago	Francisco	Dallas
3	**$35.00**	**$22.50**	**$18.40**	**$15.00**	**$26.25**	**$19.80**
4	51.00	32.50	20.70	18.00	**33.75**	28.10
5	65.00	47.50	28.75	23.00	**48.75**	....
6	90.00	57.50	40.25	27.00	**67.50**	45.95
8	130.00	97.50	74.75	55.00	....	82.75

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices in tank cars 8000 gal. minimum f.o.b. places named:

New York, 40-50% asphalt.....	**6½c. gal.**
New York, 60-70% asphalt.....	**7c. gal.**
New York, dust layer.....	**7¼c. gal.**
New York, binder	**8¼c. gal.**
St. Louis, 45-50% asphalt.....	**5c. gal.**
Chicago, 15-20% asphalt.....	**6½c. gal.**
Dallas, 40-50% asphalt.....	**7c. gal.**
Dallas, 60-70% asphalt.....	**8c. gal.**
San Francisco, 75-95% asphalt.....	*** $1.90 bbl.**

Note—Barrel of 42 bulk gal.

ASPHALTUM—Price per ton in packages and bulk in carload lots:

	Brand	Package	Bulk
New York	Texaco	**$30.00**	....
New York	Mexican*	19.00	14.00
Chicago	Mexican	24.00	20.00
St. Louis	Texaco or Mexican.....	22.50	19.50
San Francisco	California	14.50	12.50
Dallas	Texaco or Mexican.....	22.50	19.50
Seattle	.....	....	16.00
Denver.....	Trinidad	**40.00**	....
Denver.....	California	**28.00**	....
Kansas City	Trinidad	26.00	....
Kansas City	Eexaco	21.00	....
St. Paul.....	Trinidad	25.40	....

*Nominal.

PAVING BRICK AND BLOCK—See "Brick" under "Construction Materials."

PAVING STONE—

		June 29, 1917
New York	Manhattan	**$2.50 sq.yd.**
	Other boroughs	2.25 sq.yd.
Boston	5-in. granite	**2.55 sq.yd.**
	About 4x8x4 dressed.....	2.25 sq.yd.
Chicago	About 4x8x4 common.....	1.80 sq.yd.
San Francisco	Basalt block 4x7x8	57.75 per M
Kansas City	Limestone	2.00 sq.yd.
St. Paul	Sandstone	1.70 sq.yd.
New Orleans.....	3-in.	2.05 sq.yd.
	3½-in.	**2.35 sq.yd.**
	4-in.	2.65 sq.yd

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$2.00
New York	4	16	2.25
Chicago	4	16	1.85
Chicago	City specifications		2.10
St. Louis	3½	16	1.91
Seattle	4	16	1.47
Boston	4	20	2.02
Kansas City	4	16	1.95
St. Paul	Minneapolis specifications		2.00

FLAGGING—

		June 29, 1917
New York	Bronx	$0.17 sq.ft.
	Manhattan	.17 sq.ft.
	Queens, 5 ft. square	.18 sq.ft.
Chicago	18 in. wide	.75 lin.ft.

CURBING—Prices per linear foot are as follows:

New York	5 x 16	$0.45
	5 x 20	.50
Chicago	6 x 18	.60
St. Louis	5 x 16 square edge	.79
	5 x 16 bull nose	.95
San Francisco	5 x 16	.75
	5 x 20	.85

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.:

	Gravel				Sand	
	1½ In.		¾ In.			
	Paving	July 31, 1917	One Yr. Ago	July 31, 1917	One Yr. Ago	July 31, 1917	One Yr. Ago
New York	$1.25	$1.25	$0.90	$1.35	$1.00	$0.50	$0.50
Chicago	1.40	1.40	.85	1.40	.85	1.00	.85
St. Louis	....	1.08	.70	1.08	.70	1.08	.60
Dallas	....	1.50	....	1.50	....	1.10	....
San Francisco	2.00	1.00	1.00	1.00	1.00	1.00	.90
New Orleans	....	1.85	....	2.25	....	1.25	....
Denver	....	1.45	....	1.45	....	1.00	....
Kansas City	....	2.00	....	2.25	....	.60	....
Boston	....	1.50	....	1.60	....	.80	....
St. Paul	....	1.10	....	1.40	....	.50	....
Seattle	....	.75	....	.75	....	.75	....

Fine White Sand—St. Louis:

Pacific.....$5.00 per ton Ottawa.....$7.00 per ton

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In.		¾ In.	
	July 31, 1917	One Year Ago	July 31, 1917	One Year Ago
New York	$1.10	$0.85	$1.25	$0.95
Chicago	1.40	1.10	1.40	1.10
St. Louis	1.35	1.00	1.35	1.00
Dallas	1.42	....	....	....
San Francisco	1.00	1.00	1.00	1.00
Seattle	1.50	....	1.50	....
Denver	1.45	....	....	....
Boston	1.40	....	1.40	....
Kansas City	1.50	....	1.60	....
St. Paul	1.00	....	1.10	....

LIME—Warehouse prices:

	Hydrated per Ton		Lump per 300-Lb. Barrel	
	Finished	Common	Finished	Common
New York	$16.50	$13.25	$2.10	$1.90
Chicago	15.00	12.00	....	....
St. Louis	12.00	10.75	....	....
Dallas	20.00	15.00	....	....
San Francisco	18.50	....	....	1.65

ROSENDALE NATURAL CEMENT—Price to dealers for 500 bbl. or over, f.o.b., including bags:

New York $1.15

30c. allowed for bags.

PORTLAND CEMENT—These prices are for barrels in carload lots, including bags:

	July 31, 1917	One Month Ago	One Year Ago
New York	$2.22	$2.22	$1.72
Jersey City	2.16	2.16	1.66
Boston	2.27	2.27	1.92
Chicago	2.31	2.31	1.81
Pittsburgh	2.31	2.31	1.81
Cleveland	2.44	2.44	1.94
Detroit	2.40	2.40	1.90
Indianapolis	2.44	2.44	1.94
Toledo	2.44	2.44	1.94
Milwaukee	2.43	2.43	1.93
Minneapolis	2.58	2.58	2.08
Duluth	2.51	2.51	1.96
Peoria	2.43	2.43	1.89
Cedar Rapids	2.54	2.54	2.00
Davenport	2.49	2.49	1.90
St. Louis	2.45	2.45	1.85
Denver	2.39	2.39	...
San Francisco	2.30	...	2.30
Dallas	2.15	2.15	...
Los Angeles	2.40	2.40	...
New Orleans	2.58	2.56	...
Kansas City	2.29	2.29	...
Cincinnati	2.70	2.70	...
St. Paul	2.63	2.63	...
Seattle	2.65	...	...

TRIANGLE MESH REINFORCEMENT—Price per 100 sq.ft. in carload lots:

PLAIN 4-IN. x 4-IN. MESH

Style Number	Sectional Area Square Inches per Foot Width	Pittsburgh	New York	Chicago	St. Louis	Dallas	San Francisco
032	0.032	$0.89	$0.92	$0.93	$0.94	$1.06	$1.20
049	0.049	1.13	1.18	1.18	1.20	1.34	1.55
068	0.068	1.42	1.47	1.49	1.50	1.68	1.97
093	0.093	1.82	1.89	1.91	1.92	2.17	2.47
126	0.126	2.31	2.39	2.42	2.44	2.74	3.15
153	0.153	2.75	2.86	2.88	2.91	3.27	3.75
180	0.180	3.16	3.27	3.31	3.34	3.76	...
245	0.245	4.17	4.33	4.36	4.41	4.96	6.12
287	0.287	4.82	5.00	5.04	5.10	5.72	...
336	0.336	5.59	5.80	5.85	5.92	6.66	...
395	0.395	6.48	6.72	6.78	6.86	7.73	...

PLAIN 4-IN. x 8-IN. MESH

036P	0.036	.69	.71	.72	.73	.82	...
053P	0.053	.97	1.01	1.02	1.03	1.16	...
072P	0.072	1.26	1.30	1.32	1.33	1.50	...
097P	0.097	1.62	1.68	1.70	1.71	1.93	...
040R	0.040	.97	1.01	1.02	1.03	1.15	1.97
067R	0.067	1.26	1.30	1.32	1.33	1.50	...
089R	0.089	1.62	1.68	1.70	1.71	1.93	...

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and [illegible]-in. width in rolls 150-, 200- and 300-ft. lengths.
Galvanized runs about 10% higher than plain.

EXPANDED METAL LATH—Prices per 100 yd. for painted are as follows:

		Carlod					
		New York					
Gage	Weight	July 31, 1917	One Year Ago	Chicago	St. Louis	San Francisco	Dallas
27	233	$31.00	$17.00	$31.00	$34.00	$29.00	$33.00
26	250	32.03	18.00	32.00	35.00	30.25	....
25	300	33.13	19.00	33.00	....	....	....
24	340	34.25	20.00	34.00	37.00	33.00	36.00
22	450	36.44	23.00	36.00	....	....	....

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING—The following quotations are per 100 lb.:

ROLLED FROM BILLETS

		Warehouse				
	Mill,	New York				
In.	Shipment	July 31, 1917	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
¾ and larger	*	$5.10	$3.25	$4.736	$4.50	$6.00	$4.75
⅝	*	5.15	3.35	4.786	4.55	6.05	4.80
½	*	5.20	3.40	4.836	4.60	6.10	4.85
⅜	*	5.35	3.65	4.986	4.75	6.25	5.00
⅛	*	5.60	4.00	5.236	5.00	6.50	5.25

*Mill quotations on actual specifications.

ROLLED FROM RAILS

	St. Louis	Dallas		St. Louis	Dallas
¾ in. and larger	$4.00	$4.75	⅝	$4.25	$5.00
⅝	4.05	4.80	¼	5.00	5.25
½	4.10	4.85			

BRICK—The price per 1000 in cargo or carload lots is as follows:

	Common			Paving	
	July 31, 1917	One Month Ago	One Year Ago	Brick	Block
New York	$8.50	$9.00	$7.75	$25.00	$35.00
Chicago	8.00	8.00	6.00	16.00	24.00
Ct. Louis, salmon	7.00	7.00	9.00	....	....
St. Louis, selected	10.00	10.00	9.00	....	....
Denver	8.00	8.00	....	....	14.00
San Francisco	10.00	....	10.00	....	....
Dallas	8.10	8.10	....	22.00	22.50
New Orleans	9.00	9.00	....	....	27.50
Kansas City	11.00	11.00	....	....	....
Boston	13.25	13.25	....	....	25.00
Seattle	9.00	....	....	....	28.75
St. Paul	8.70	....	....	....	27.00

HOLLOW TILE—Hollow building tile price per block in cents:

	New York					
	July 31, 1917	One Year Ago	Chicago	St. Louis	San Francisco	Dallas
4x12x12	$0.0925	$0.065	$0.07895	$0.054	$0.0825	$0.07
6x12x12	.1295	.091	.11845	.066	.11	.09
8x12x12	.15725	.11	.1369	.09	.1275	.12
10x12x12	.185	.13	.1579	.15	.20	.15
12x12x12	.23125	.1625	.2053	.18	.22	.18

	4x12x12	8x12x12	12x12x12
Boston	$0.0957	$0.171	$0.2268
St. Paul	.055	.103	.138
Kaansas City	.0595	.1125	.1575
Denver	.09	.17	.25
New Orleans	.0892	.1417	.1863
Seattle	.06	.10	.16

STRUCTURAL MATERIAL—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

		New York					
	Pittsburgh	July 31, 1917	1 Yr. Ago	St. Louis	Chicago	San Francisco	Dallas
Beams, 3 to 15 in.	$4.50	$5.25	$2.50	$5.05	$5.00	$7.75	$6.00
Channels, 3 to 15 in.	4.60	5.25	2.50	5.05	5.00	7.75	6.00
Angles, 3 to 6 in., ¼ in. thick	4.50	5.25	2.50	5.05	5.00	7.75	6.25
Tees, 3 in. and larger	4.50	5.30	2.50	5.05	5.05	7.75	6.25
Plates	9.00	9.00	2.90	8.05	8.00	10.00	9.00

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill,	Warehouse				
	Pittsburgh	New York	Chicago	St. Louis	San Francisco	Dallas
¾ in. and larger	$5.25	$7.00	$5.50	$5.55	$6.65	$8.40
CONE HEAD BOILER						
¾ in. and larger	5.35	7.10	5.60	5.65	6.75	8.50
⅞ and 1	5.50	7.25	5.75	5.80	6.90	8.65
½ and ⅝	5.85	7.60	6.10	6.15	7.25	9.00

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York and Chicago:

	1-Ply		2-Ply		3-Ply	
	c.l.	l.c.l.	c.l.	l.c.l.	c.l.	l.c.l.
No. 1 grade	$1.15	$1.30	$1.45	$1.60	$1.75	$1.90
No. 2 grade	1.00	1.15	1.25	1.40	1.50	1.65

Asbestos asphalt-saturated felt (14 lb. per square) costs $6.50 per 100 lb.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $1.85 per roll in carload lots and $2.10 for smaller quantities.

Shingles, red and green slate finish, cost $4.75 per square in carloads, $5 in smaller quanties, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York or Chicago:

	Carload Lots	Less Than Carload Lots
Tar felt (14 lb. per square of 100 sq.ft.)	$59.00	$60.00
Tar pitch (in 400-lb. bbl.)	15.00	*16.50*
Asphalt pitch (in barrels)	29.00	30.50
Asphalt felt	60.00	62.00

CORRUGATED SHEETS—Price of corrugated sheets (2½-in. corrugations) in cents per pound:

Gage		Cincinnati	Birmingham	St. Louis	Denver
18–20	Black	$18.00*	....	$0.092	....
28	Black	5.75*	....	.094	$0.10
18–20	Galvanized	22.50*	$0.11	....	....
28	Galvanized	8.75*	.12	.113	.12

*Price per square of 100 sq.ft.

SHEETS—Price in cents per pound:

	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York, July 31, 1917	New York, One Yr. Ago
Blue Annealed						
No. 10	**3.25**	9.55	9.50	10.50	**10.00**	4.25
No. 12	**3.65**	9.60	9.55	10.55	**10.05**	4.30
No. 14	**3.85**	9.65	9.60	10.60	**10.10**	4.35
Black						
Nos. 18 and 20	**3.55**	**9.65**	9.30	10.80	**10.30**	3.15
Nos. 22 and 24	**3.60**	**9.70**	9.35	10.83	**10.35**	3.50
No. 26	**3.65**	**9.75**	9.40	10.88	**10.40**	3.55
No. 28	**3.75**	**9.85**	9.50	10.98	**10.50**	3.65
Galvanized						
No. 10	**9.50**	10.45	9.70	....	....	4.50
No. 12	**9.60**	10.45	9.70	12.15	**12.10**	4.50
No. 14	**9.75**	10.45	9.70	12.15	**12.10**	4.50
Nos. 18 and 20	**9.90**	10.65	10.00	12.45	**12.40**	4.80
Nos. 22 and 24	**10.30**	10.80	10.15	12.62	**12.55**	4.55
No. 26	**10.45**	10.95	10.20	12.77	**12.70**	....
No. 28	**10.75**	11.25	10.50	13.06	**13.00**	5.00

LINSEED OIL—These prices are per gallon:

	New York, July 31, 1917	New York, One Year Ago	Cleveland, July 31, 1917	Cleveland, One Year Ago	Chicago, July 31, 1917	Chicago, One Year Ago
Raw in barrels	**$1.16**	**$0.71**	**$1.20**	**$0.73**	**$1.21**	**$0.73**
5-gal. cans	1.26	.81	1.35	.83	1.36	.83

WHITE AND RED LEAD in 500-lb. lots sell as follows in cents per pound:

	Red, July 31, 1917		Red, 1 Year Ago		White, July 31, 1917	White, 1 Yr. Ago
	Dry	In Oil	Dry	In Oil	Dry and In Oil	Dry and In Oil
100-lb. keg	13.25	13.50	10.50	11.00	13.00	10.50
25- and 50-lb. kegs	13.50	13.50	10.75	11.25	13.25	10.75
12½-lb. keg	13.75	14.00	11.00	11.50	13.50	11.00
1- to 5-lb. cans	15.25	15.50	12.50	12.50	15.50	12.50

LUMBER—Price per M in carload lots:

Square Edge and Sound Green

	Southern Pine, New York, 20 Ft. and Under	Southern Pine, New York, 22–24 Ft.	Southern Pine, Chicago, 20 Ft. and Under	Southern Pine, Chicago, 22–24 Ft.	Yellow Pine, St. Louis, 20 Ft. and Under	Yellow Pine, St. Louis, 22–24 Ft.
3x 4 to 8x 8	$33.75	$34.75	$31.75	32.75	28.75	29.75
3x10 to 10x10	35.75	36.75	33.75	34.75	30.75	31.75
3x12 to 12x12	38.75	39.75	36.75	37.75	33.75	34.75
3x14 to 14x14	41.75	42.75	39.75	40.75	36.75	37.75
3x16 to 16x16	**43.75**	**47.75**	**44.75**	**45.75**	**41.75**	**42.75**
3x18 to 18x18	51.75	52.75	49.75	50.75	46.75	47.75
4x20 to 20x20	56.75	57.75	54.75	55.75	51.75	52.75

Over 24 ft.—Add $1 for each additional 3 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Prices from Lumberman's Bureau.

Yellow Pine—Dallas. Price per M:

2x4 to 2x12—12 to 16 ft. long	$32.50
2x4 to 2x12—10, 18 and 20 ft. long	35.00
2x4 to 2x12—22 and 24 ft. long	37.50
4x4, 4x6, 6x6, 8x8, 3x8	37.50
8x10, 10x10, 3x10	40.00
12x12, 3x12	40.00

Rough Douglas Fir, No. 1 Common—More than carload lots in San Francisco:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	**$22.00**	**$23.50**	**$34.50**
3 and 4x6 and 8	**22.00**	22.50	23.50
6x6 to 8x8	**22.50**	**23.50**	**23.50**
3 and 4x10	**22.00**	**23.50**	**24.50**
6 and 8x10	**23.00**	**24.00**	**24.00**
10x10	**23.00**	**23.00**	**25.00**
3 and 4x12	**22.00**	**23.50**	**24.50**
6 and 8x12	**23.50**	**24.50**	**24.50**
10 and 12x12	**23.00**	**23.00**	**25.00**
3 and 4x14	**23.00**	**25.00**	**26.00**
6 and 8x14	**24.50**	**25.50**	**25.50**
7 and 9x14	**25.50**	**26.50**	**26.50**
10 and 12x14	**24.00**	**24.00**	**26.00**

	1-In. Rough, 10 In. x 16 Ft. and Under, Y.P.	1-In. Rough, 10 In. x 16 Ft. and Under, Fir	1-In. Rough, 10 In. x 16 Ft. and Under, Hemlock	2-In. T. and G., 10 In. x 16 Ft., Y.P.	2-In. T. and G., 10 In. x 16 Ft., Fir
Boston*	....	....	....	....	....
Kansas City	**$44.00**	**$44.50**	**$43.00**	**$52.00**	....
Seattle	18.50	18.50	18.50	18.50	18.50
New Orleans	*26.00*	....	....	*28.00*	....
St. Paul	....	51.00	33.50	59.00	37.50
Denver	**30.00**	*30.00*	27.50	....	*30.00*

	8 x 8-In. x 20 Ft. and Under, Y.P.	8 x 8-In. x 20 Ft. and Under, Fir	8 x 8-In. x 20 Ft. and Under, Hemlock	8 x 8-In. x 20 Ft. and Under, Spruce	12 x 12-In., 20 Ft. and Under, Y.P.	12 x 12-In., 20 Ft. and Under, Fir
Boston*	....	....	....	$40.00	....	....
Kansas City	**$39.00**	$35.00	$35.00	....	**$45.00**	$35.00
Seattle	18.50	18.50	18.50	$18.50	18.50	18.50
New Orleans	*24.50*	....	....	....	30.00	....
St. Paul	....	40.00	31.50	32.00	....	45.00
Denver	....	*30.00*	30.00	....	30.00	....

*Prices demoralized; no standing quotations.

NAILS—The following quotations are per keg from warehouse:

	Pittsburgh	St. Louis	Chicago	San Francisco	Dallas
Wire	$4.00	$4.50	$4.45	$4.60	$4.35
Cut	4.65	5.00	4.65	6.15	....

MISCELLANEOUS

FREIGHT RATES—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Baltimore	15.4	Minneapolis	32.9
Boston	18.9	New Orleans	30.7
Buffalo	11.6	New York	16.9
Chicago	18.9	Pacific Coast (all rail)	75.0
Cincinnati	15.8	Philadelphia	15.9
Cleveland	10.5	St. Louis	23.6
Denver	68.6	St. Paul	32.9
Kansas City	43.6		

WATER TREATMENT CHEMICALS—Prices per lb. in New York are as follows:

Sulphate of alumina (iron free)	$0.045 (in 400-lb. bbl.)
Hypochlorite of lime	.03 (in 700-lb. drums)
Soda ash	.04 (in 400-lb. bbl.)
Liquid chlorine	.175 f.o.b. Niagara Falls

Lime is quoted separately, on next page.

CONTRACTORS' MISCELLANEOUS SUPPLIES

STEEL SHEET PILING—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

July 31, 1917	One Month Ago	One Year Ago
$4.50 to $5.00	$3.60 to 4.00	$2.50

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York, July 31, 1917	New York, One Year Ago	St. Louis	Chicago	San Francisco
Galvanized	10—2½%	25—2½%	10—2½%	10—2½%	15%
Bright	20—2½%	35—2½%	20—2½%	*20*—2½%	5%

MANILA ROPE—For rope smaller than ⅝-in. the price is ½ to ¾c. extra; while for quantities amounting to less than 600 ft there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ⅜-in., 8 ft.; ½-in., 6; ⅝-in., 4½; 1-in., 3½; 1¼-in., 2 ft. 10 in.; 1½-in., 2 ft. 4 in. Following is price per pound for ⅝-in. and larger, in 1200-ft. coils:

Boston	**$0.34**	New Orleans	$0.31
New York	**.33½**	Seattle	.31½
Denver	**.36**	St. Paul	.31½
Kansas City	.31½		

EXPLOSIVES—Price per pound in small lots at cities named:

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%	Black Powder*
New York	....	**$0.26½**	**$0.33½**	....	$2.35
Boston	....	....	.33¼	.40¾*	....
Kansas City	**.19**	.25¼	.30¼	.36½	....
New Orleans	.20¼	.24¼	.29¼	....	....
Seattle	*.17½*	.23¾	.30¾	....	....
St. Paul	**.19**	.25¼	.32¼	.42¼	2.35
St. Louis	**.15½**	.21½	.29½	.34¾	**1.95**
Denver	**.18**	.24¼	.31¼	.41¼	....

*75%.

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York, July 31, 1917	New York, One Month Ago
Heavy melting steel scrap	$29.00 to 30.00	$29.00
No. 1 railroad wrought	*42.00* to *43.00*	50.00
Stove plate	*20.00* to *21.00*	22.00
No. 1 machinery cast	34.00 to 35.00	35.00
Machine shop turnings	*18.00* to *19.00*	21.50
Cast borings	*18.00* to *19.00*	22.00
Railroad malleable cast	**33.00 to 34.00**	32.00

	Chicago, July 31, 1917	Chicago, One Month Ago
No. 1 railroad wrought	$35.00	$44.00
Stove plate	*18.50*	24.50
No. 1 machinery cast	*28.50*	32.00
Machine shop turnings	*17.00*	20.00
Cast borings	*17.50*	19.50
Railroad malleable cast	*29.00*	35.00

	St. Louis, July 31, 1917	St. Louis, One Month Ago
Heavy melting steel scrap	$37.00 to 38.00*	$44.00
No. 1 railroad wrought	*36.00* to *37.00*	40.00
Stove plate	*18.00* to *18.50*	22.00
No. 1 machinery cast	*25.00* to *26.00*	30.00
Machine shop turnings	**19.00 to 19.50**	18.50
Cast borings	**17.50 to 18.00**	16.50
Railroad malleable cast	**29.50 to 30.00**	27.00

*Per gross ton.

Proposals

For Proposals Advertised See Pages 61 to 66 Inclusive

WATER-WORKS

Bids Close		See Eng. News-Record
Aug. 16.	Waterloo, Ia.	July 26
Aug. 2.	Akron, O.	June 26
Aug. 6.	New York, N. Y.	Aug. 2
Aug. 7.	New York, N. Y. Adv. July 26.	July 26
Aug. 9.	Atlantic City, N. J.	Aug. 2
Aug. 13.	Red Rock, Okla.	Aug. 2
Aug. 20.	Cumberland, Md. Advertised Aug. 2.	Aug. 2
Aug. 25.	San Francisco, Calif.	Aug. 2
Sept. 11.	New York, N. Y.	July 12

SEWERS

Aug. 6.	Cleveland Heights, O.	July 19
Aug. 7.	Caledonia, Minn.	July 26
Aug. 8.	Dardanelle, Ark.	July 26
Aug. 9.	Newark, N. J.	Aug. 2
Aug. 10.	Piqua, O.	Aug. 2
Aug. 14.	Lebanon, O.	July 26
Aug. 14.	Toronto, Ont.	Aug. 2

BRIDGES

Aug. 6.	Camden, N. J.	Aug. 2
Aug. 6.	Fairfield, Cal.	Aug. 2
Aug. 6.	Canton, O.	Aug. 2
Aug. 6.	San Jose, Cal.	Aug. 2
Aug. 6.	Elkhart, Ind.	Aug. 2
Aug. 6.	Waseca, Minn.	Aug. 2
Aug. 6.	Grundy, Va.	Aug. 2
Aug. 9.	Hartford, Ky.	Aug. 2
Aug. 10.	La Grange, Ky.	Aug. 2
Aug. 14.	Tehamah, Neb.	Aug. 2
Aug. 14.	Somis, Cal.	Aug. 2
Aug. 16.	Salem, N. J.	Aug. 2
Aug. 22.	Troy, O.	Aug. 2
Aug. 27.	Elberton, Ga.	Aug. 2
Aug. 30.	Kankakee, Ill.	Aug. 2

STRUCTURAL STEEL WORK

Aug. 3.	Albany, N. Y. Adv. July 19 to Aug. 2.	July 19
Aug. 6.	Camden, N. J. Adv. July 26.	July 26
Aug. 6.	Spencer, Ind.	July 19
Aug. 6.	Rio Vista, Cal.	July 26
Aug. 9.	Vancouver, Wash.	July 26
Aug. 9.	Portland, Ore.	July 26
Aug. 14.	Brazil, Ind.	July 12
Aug. 14.	Fairmont, W. Va.	July 26
Aug. 16.	Hamlin, W. Va.	July 12
Aug. 21.	Albany, N. Y. Adv. July 26 and Aug. 2.	July 26

REINFORCED CONCRETE

Aug. 6.	Greenville, Miss.	July 12
Aug. 6.	Columbus, O.	July 19
Aug. 6.	Santa Barbara, Cal.	July 26
Aug. 6.	Camden, N. J.	July 26
Aug. 7.	Columbus, Mo.	July 26
Aug. 9.	South Bend, Wash.	July 26
Aug. 13.	Spencer, W. Va.	July 19
Aug. 22.	Beatrice, Neb.	July 19

STREETS AND ROADS

Aug. 6.	Clifton, Ariz.	July 12
Aug. 6.	Kittanning, Pa.	July 26
Aug. 6.	Tunica, Miss.	July 26
Aug. 6.	Cincinnati, O.	July 26
Aug. 6.	California	July 26
Aug. 6.	Poplar Bluffs, Mo.	July 26
Aug. 6.	Indiana	July 26
Aug. 6.	S. I. St. George, N. Y.	Aug. 2
Aug. 6.	Dayton, O.	Aug. 2
Aug. 6.	New Orleans, La.	Aug. 2
Aug. 6.	Owensboro, Ky.	Aug. 2
Aug. 6.	Jefferson City, Mo.	Aug. 2
Aug. 5.	Burlington, Ia.	Aug. 2
Aug. 6	De Vall Bluff, Ark.	Aug. 2
Aug. 6.	Council Bluff, Ia.	Aug. 2
Aug. 7.	Indiana	July 26
Aug. 7.	Wallace, Idaho	July 26
Aug. 7.	Indiana	July 12
Aug. 7.	Houston, Tex.	July 19
Aug. 7.	Huntsville, Tex.	July 19
Aug. 7.	Pennsylvania	July 19
Aug. 7.	Camden, N. J.	July 26
Aug. 7.	Paterson, N. J.	July 26
Aug. 7.	Billings, Mont.	July 26
Aug. 7.	Friar Point, Miss.	Aug. 2
Aug. 7.	Grand Island, Neb.	Aug. 2
Aug. 7.	Buffalo, N. Y.	Aug. 2
Aug. 7.	Wabash, Ind.	Aug. 2
Aug. 7.	S. I. St. George, N. Y.	Aug. 2
Aug. 7.	Rockville, Mo.	Aug. 2
Aug. 8.	Santa Ana, Cal.	July 19
Aug. 8.	Indianapolis, Ind.	July 26
Aug. 8.	Indiana	July 26
Aug. 8.	Canton, O.	Aug. 2
Aug. 8.	New York, N. Y.	Aug. 2
Aug. 8.	Santa Ana, Cal.	Aug. 2
Aug. 8.	Mountainside, N. J.	Aug. 2
Aug. 8.	Atlantic City, N. J.	Aug. 2
Aug. 8.	Elizabeth, N. J.	Aug. 2
Aug. 9.	South Bend, Wash.	July 26
Aug. 9.	Portsmouth, Va.	Aug. 2
Aug. 9.	New York, N. Y.	Aug. 2
Aug. 9.	Coshocton, O.	Aug. 2
Aug. 9.	Alberquerque, N. M.	Aug. 2
Aug. 10.	Indiana	July 26
Aug. 10.	Uniontown, Pa.	July 26
Aug. 10.	Seattle, Wash.	Aug. 2
Aug. 10.	Walla Walla, Wash.	Aug. 2
Aug. 10.	Boise, Idaho	Aug. 2
Aug. 11.	Indiana	July 26
Aug. 11.	Westerville, O.	Aug. 2
Aug. 11.	Whitley City, Ky.	Aug. 2
Aug. 13.	Lewiston, Idaho	May 24
Aug. 13.	Ashland, Ala.	July 26
Aug. 13.	Indiana	July 26
Aug. 13.	Centerburg, O.	July 26
Aug. 13.	Plattsmouth, Neb.	Aug. 2
Aug. 13.	Cincinnati, O.	Aug. 2
Aug. 13.	Sandusky, O.	Aug. 2
Aug. 14.	New Bedford, N. J.	July 19
Aug. 14.	Pennsylvania Adv. July 26 and Aug. 2.	July 26
Aug. 14.	Freehold, N. J.	Aug. 2
Aug. 14.	St. Louis, Mo.	Aug. 2
Aug. 14.	Salt Lake City, Utah	Aug. 2
Aug. 14.	Tampa, Fla.	Aug. 2
Aug. 15.	Canton, O.	Aug. 2
Aug. 15.	Ohio	Aug. 2
Aug. 15.	Medina, O.	Aug. 2
Aug. 15.	Pioneer, O.	Aug. 2
Aug. 16.	Hamlin, W. Va.	July 12
Aug. 16.	Ohio	Aug. 2
Aug. 16.	Savannah, Tenn.	Aug. 2
Aug. 16.	Hazards, Ky.	Aug. 2
Aug. 17.	Jenkins, Ky.	Aug. 2
Aug. 17.	Cincinnati, O.	Aug. 2
Aug. 20.	Indiana	July 26
Aug. 20.	Washington	Aug. 2
Aug. 21.	Stone Harbor, N. J.	Aug. 2
Aug. 27.	Newark, N. J.	Aug. 2

INDUSTRIAL WORKS

Aug. 6.	Mottville, Mich. Adv. July 26.	July 26

EXCAVATION AND DREDGING

Aug. 5.	New Ulm, Minn.	July 26
Aug. 6.	Paxton, Ill.	July 26
Aug. 6.	Mason City, Ia.	Aug. 2
Aug. 7.	Ft. Madison, Ia. Adv. July 26 and Aug. 2.	July 26
Aug. 7.	Jersey City, N. J.	July 26
Aug. 7.	Jefferson City, Mo.	Aug. 2
Aug. 9.	Centre City, Minn.	July 26
Aug. 9.	Mankato, Minn.	Aug. 2
Aug. 10.	Lewiston, Ill.	July 26
Aug. 10.	Portsmouth, O.	Aug. 2
Aug. 13.	Sibley, Ia.	Aug. 2
Aug. 17.	Fairbault, Minn.	Aug. 2
Aug. 20.	Des Moines, Ia.	July 26
Aug. 20.	Des Moines, Ia.	Aug. 2
Aug. 24.	Memphis, Tenn.	Aug. 2
Oct. 2.	St. Cloud, Minn.	Aug. 2

BUILDINGS

Aug. 3.	Columbus, O.	Aug. 2
Aug. 6.	Cheyenne, Wyo.	July 19
Aug. 6.	Santa Barbara, Cal.	July 19
Aug. 7.	Cleveland, O.	Aug. 2
Aug. 7.	Columbus, O.	Aug. 2
Aug. 5.	North Raymond, Me.	Aug. 2
Aug. 7.	New York, N. Y. Adv. July 26 and Aug. 2.	July 26
Aug. 7	Youngstown, O.	July 26
Aug. 8.	Great Bend, Kan.	July 19
Aug. 8.	McPherson, Kan.	Aug. 2
Aug. 8.	New York, N. Y.	Aug. 2
Aug. 8.	Morristown, N. J.	Aug. 2
Aug. 9.	Loveland, O.	July 26
Aug. 10.	Fall River, Mass.	July 26
Aug. 10.	Bedford, O.	July 26
Aug. 10.	Vergennes, Vt.	Aug. 2
Aug. 13.	Winnfield, La.	Aug. 2
Aug. 13.	Mason City, Ia.	July 26
Aug. 15.	Tower, Minn.	Aug. 2
Aug. 15.	Hudson Falls, N. Y.	Aug. 2
Aug. 15.	Burnaby, B. C.	Aug. 2
Aug. 17.	Cohoes, N. Y.	July 26
Aug. 20.	Troy, N. Y.	July 12
Aug. 22.	Greensboro, N. C.	July 26
Aug. 22.	Modesto, Cal.	July 26
Aug. 24.	New Brunswick, N. J.	July 26

FEDERAL GOVERNMENT WORK

Aug. 6.	Globe, Ariz.	July 5
Aug. 6.	Charleston, S. C.	July 26
Aug. 11.	St. Louis, Mo.	July 26
Aug. 13.	Ft. Mifflin, Penn.	Aug. 2
Aug. 14.	West Point, Ga.	July 12
Aug. 17.	Washington, D. C.	July 12
Aug. 20.	GGlenwood Springs, Colo.	Aug. 2
Aug. 20.	Washington, D. C.	Aug. 2
Aug. 21.	Grand Haven, Mich. Adv. July 26 and Aug. 2.	July 26
Aug. 30.	Franklin, Pa. Adv. July 26 and Aug. 2.	July 26
Sept. 4.	McKees Rocks, Penn.	Aug. 2
Sept. 5.	Torrington, Wyo. Adv. July 26.	July 26
Sept. 5.	Washington, Ga.	Aug. 2
Sept. 6.	Forsyth, Ga.	Aug. 2

MISCELLANEOUS

Aug. 6.	Air Compressors—Galesburg, Ill. Adv. July 26 and Aug. 2.	July 26
Aug. 8.	Incinerator—Brookline, Mass.	Aug. 2
Aug. 21.	Piers—Albany, N. Y. Adv. July 26 and Aug. 2.	July 26
Aug. 22.	Tunnels—San Francisco, Cal. Adv. July 19.	July 19
Aug. 25.	Incinerator—Paducah, Ky.	Aug. 2

Where name of official is not given, inquiries shou'd be addressed to City Clerk County Clerk or corresponding official

WATER-WORKS

Proposed Work

N. Y., New York—(Official)—Bd. Water Supply rejected bid, contract 187, fitting up chemical and bacteriological laboratory, etc., lower gate chamber Ashokan reservoir, Olive Twp. Noted July 19.

N. J., Jersey City—City plans to lay new water mains in Arlington Sect. About $15,000. R. M. Dolan, clk.

N. J., Rahway—Bd. Water Comrs. plans to improve water system. About $25,000. Address A. J. Wendell.

N. J., South Orange—See "Sewers."

O., Dayton—City had plans prepared by Metcalff & Eddy, engrs., 14 Beacon St., Boston, Mass., building 10,000,000 gal. reservoir in southeastern part of city. Noted May 10.

Mich., Gladstone—City plans to install 500,000 gal. concrete reservoir. About $16,000.

Wis., Niagara—City election soon to vote on $35,000 bond issue to build waterworks system.

Kan., Palo—City voted $30,000 to build waterworks system and electric light plant. G. P. Taylor, Stockton, engr.

Kan., Towanda—City election Aug. 7, to vote on $25,000 bond issue to improve waterworks. A. E. Dudney, clk.

Mont., Phillipsburg—City election Aug. 4 to vote on $10,000 bond issue to construct reservoir. W. Neu, clk.

Tex., El Paso — City plans to enlarge waterworks system. About $100,000. W. E. Race, supt.

Tex., Pleasanton—City soon lets contract building waterworks plant and distributing system. About $20,000.

Tex., Waco—City plans to build 1,500,000-gal. reservoir to supply army camp. S. J. Quay, supt.

Okla., Bristow—City election for Aug. 16, to vote on $12,000 bond issue water-works and sewer extension. Noted June 21.

Water-Works (Continued)

Okla., **Norman**—City election soon to vote on $10,000 bond issue to construct reservoir and pump house.

Okla., **Shamrock**—City election Aug. 4 to vote on $40,000 bond issue to build waterworks.

Wash., **Waitsburg**—City election Aug. 20 to vote on $50,000 bonds to construct waterworks system.

Cal., **Corcoran**—City soon lets contract constructing waterworks system. About $60,000. W. R. Mayer, supt.

Cal., **El Centro**—City election Sept. 20, to vote on $50,000 bonds to build filtration plant, capacity 3,000,000 gal.

Cal., **Los Angeles**—Pub. Ser. Comn. secured site near Chatsworth Park and plans to build reservoir, 9,000,000-gal. capacity, 3 dams, earth and rock, from 25 to 75 ft. high and 7 earth dikes. About $ 50,000. W. Mulholand, Knickerbocker Bldg., ch. engr.

Cal., **Santa Barbara**—City Comrs. to sell $90,000 bonds of $590,000 recently voted to construct concrete lined earth reservoir on Mission Ridge, pipeline from Santa Barbara portal of tunnel to reservoir, and to start preliminary work for concrete dam on Gibralter damsite. J. B. Lippincott, Central Bldg Los Angeles. engr Noted May 17.

Ont., **Ojibway**—See "Sewers."

BIDS DESIRED

N. Y., **New York**—Until Aug. 6, by W. Williams, comr. water supply. Gas and electricity, Municipal Bldg., for furnishing, delivering, unloading, stacking and storing c.-i. box castings valves, and double-nozzle fire hydrants

Md., **Cumberland**—(Official)—Until Aug. 20, by A. W Straub, city clk., for 7,000,000 gal. reservoir in Ridgedale Addition; advertised in this issue.

Okla., **Red Rock**—Until Aug. 13, by Bd. Trustees, for building waterworks system; including sinking open caisson well, pump house and installing 250 r.p.m. 200-ft. head triplex pump, etc. About $22,000. Noted Apr. 5.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., **New York** — (Official) — Dept. Water Supply, Gas and Electricity received low bids, July 17, furnishing, delivering, unloading, stacking and storing c.-i. pipe special and valve-box castings, valve and double nozzle fire hydrants as follows: R. D. Wood & Co., 400 Chestnut St., Phila., Sect. 1, $48,505; Ornamental Fdry. Co., Anniston, Ala., Sect. 2, $13,690; T. J. Radley Co., 143 Liberty St., Sect. 3, $9850; A. P. Smith Mfg. Co., East Orange, $7999.

★N. Y., **New York**—(Official)—Bd. Water Supply let Contract No. 29, completing superstructure over drainage chamber, Shaft 21, city tunnel, Catskill Aqueduct, to Lustig & Weil, 103 Park Ave., $61,516.

★N. Y., **New York**—(Official)—Bd. Water Supply let contract No. 184, paving vitr. brick, Kensico Aerator, Mt. Pleasant, to H. E. Fox Constr. Co., 81 East 125th St., $42,850. Noted July 19.

★N. Y., **New York**—(Official)—Bd. Water Supply let Contract No. 179, surfacing with vitr. brick block about 9000-ft. highways, Kensico Dam, North Castle to Empire Eng. Co., 6 Church St., $39,695. Noted July 2.

N. J., **Newark**—Bd. Wks. received low bid building meter recording station, Bloomfield Ave. and North 6th St. from F. McCue, 142 Market St., $12,496.

★Ga., **Macon**—C. T. Williamson, chn. water com., let contract extending water mains from East Macon to cantonments at Holley Bluff to U. S. Cast Iron Pipe & Fdry. Co., 30th Ave., Birmingham, $45,000. Noted June 14.

★Ia., **Waverly**—(Official)—City let contract installing 200,000-gal. rein.-con. reservoir to C. H. J. H. Russell, Waverly, $14,-154; 1200-ft. 12-in. c. i. pipe to W. A. Edgar, Cedar Rapids, $6600. Noted July 12.

★Minn., **Duluth**—(Official)—City let contract 500 tons c. i. pipe to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago. Noted July 19.

★Kan., **Chanute**—City let contract improving waterworks to Chanute Constr. Co., Chanute, $25,000. Noted July 5.

★Kan., **Junction City** — (Official) — City let contract concrete reservoir to Lyon & Paterson, Salina, $12,873. Noted July 19.

★Kan., **Pittsburg**—City let contract 4,-000,000 gal. crank and flywheel pumps to H. R. Worthington Co., 824 Scarritt Bldg., Kansas City, Mo., $18,400; also 6,000,000-gal. centrifugal pump to Allis Chalmers Mfg. Co., West Allis, Wis., $7661. Noted July 5.

Wyo., Casper—City received low bid improving water-works from W. F. Henning, Casper, $98,200. Noted July 5.

★**Colo., Colorado Springs**—City let contract laying water pipe line extensions to J. Schwartz, 1015 East Boulder St., $41,900. Noted May 10.

★**Colo., Colorado Springs**—City let contract addition to Reservoir No. 4, to increase capacity from 660,000,000 gal. to 864,000,000 gal., to H. J. Reid, Colorado Springs. About $35,000. Noted June 28.

★**Ariz., Winslow**—Atchison, Topeka & Sante Fe R.R. let contract 5,000,000-gal. rein.-con. reservoir and filtration plant on Clear Creek to C. W. Miller, San Bernardino.

★**Wash., Seattle**—Bd. Pub. Wks. let contract installing water mains in Shilshole Ave. to Superior Constr. Co., 1642 Lane St., $27,587, using wood pipe. Noted June 14.

SEWERS

Proposed Work

N. J., **Passaic**—Bd. Comrs. plans to build sewer in Amsterdam Ave. and extend sewers in Palmer and Elliot Sts., and Union and Park Aves. C. R. Wise, city engr.

N. J., **Paterson**—Bd. Wks. plans to build sewers in East Main, Hoxsey, East 23rd and Courtland Sts. and 7th Ave. H. J. Hardes, city engr.

N. J., **South Orange**—(Official)—Village sold $35,000 bonds for sewer improvements, $19,000 for waterworks, $12,000 for streets, and $23,000 for eliminating grade crossings. F. Feneer, treas. Noted July 12.

O., **Barberton**—City had plans prepared by R. W. Pratt, engr., 708 Hippodrome Bldg., Cleveland, for constructing lateral sewer in northern section of city. About $90,500.

O., **Canton**—City election soon to vote on $290,000 bond issue for building East and West intercepting sanitary sewer. W. E. Sarver, city engr.

O., **Cleveland**—City plans to install sewers in East 123rd, East 155th, East 156th and East 140th Sts. R. Hoffman, city engr.

O., **Youngstown**—City plans to build sewers in portions of Clinton, Webb and Drummond Sts. F. M. Lillie, city engr.

Ill., **Cross Point**—(Official)—Bd. Local Improv. rejected bids for building sanitary sewerage system. J. S. Braun, clk. Noted May 3.

Ia., **Dubuque** — City soon receives bids building sanitary sewers in Cora and Exchange Sts. J. J. Shea, city engr.

Colo., **Midvale**—City plans laying 8-in. sewers in Dist. No. 2. About $13,500.

Ariz., **Glendale**—City voted $50,000 bonds to construct sewerage system. F. Holmquist, Phoenix, engr.

Wash., **Port Angeles**—See "Streets and Roads."

Wash., **Seattle**—City had plans prepared for trunk sewers and outfall in 42nd Ave., et al. About $32,626. A. H. Dimock, city engr.

Ore., **Woodburn**—State Bd. Health, Salem, approved plans of L. B. Wickersham, engr., Chamber Commerc Bldg., Portland, building sewerage system here. Bids soon. About $40,000.

Cal., **Santa Barbara**—See "Streets and Roads."

Cal., **Ventura**—City having plans prepared by Olmstead & Gillelen, engrs, 1112 Hollingsworth Bldg., Los Angeles, for sewerage system. About $15,000.

Ont., **Ojibway**—City having plans prepared building waterworks and sewerage systems, including sewage disposal and filtration plants. O. E. Fleming, utility comr.

B. C., **Vancouver**—Vancouver and Dists. Joint Sewerage & Drainage Bd. having plans prepared for sewerage system. A. D. Creer, engr.

BIDS DESIRED

N. J., **Atlantic City**—Until Aug. 9, by Bd. Freeholders, for chlorine control apparatus and 5 year contract for supply of liquid chlorine for tuberculosis hospital sewer plant. Address T. Haines.

N. J., **Newark**—(Official)—Until Aug. 9, by Bd. St. and Water Comrs. for constructing sewers in Wheeler Point Rd., Ferdon, South 20th and Miller Sts. M. R. Sherrard, ch. engr.

O., **Medina**—See "Streets and Roads."

O., **Piqua**—(Official)—Until Aug. 10, by J. F. Lucky, dir. pub. ser., for constructing Northwest storm sewer. A. Schroeder, city engr.

Ont., **Toronto**—Until Aug. 14, by T. L. Church, chn. bd. control, for extending Rosedale Creek sewer from high level pumping station to Russell Hill Rd. and Clarendon Ave. About $40,000. T. McQueen, secy. Noted July 12.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., **Brooklyn** — (Official) — L. H. Pounds, boro. pres. received low bids building sewers (a) Bay 37th and Bay 38th, (b) Montgomery St., from C. Pessacca, 803 Kent Ave., (a) 135%; (b) 120%; Murphy Bros., 215 4th Ave., (a) 159%; (b) 148%. Noted June 28.

★N. Y., **Rochester**—See "Streets and Roads."

★Pa., **Phila.** — (Official) — G. E. Datesman, dir. pub. ser., let contract constructing Northeast sewage treatment works to Phila. Subway Constr. Co., 712 Lincoln Bldg., $1,025,000. Noted July 12.

Ia., **Davenport**—(Official)—City received low bids, June 17, installing sewers using single and double block in (a) Howell St., (b) Cedar St., (c) McManus Creek sewer, (d) Kirkwood Blvd., (e) Rock Island St., as follows: Independent Constr. Co., 304 Lane Bldg., (b) $17,691 single block, $17,-479 double block, (c) $20,105 and $19,510, (d) $27,762 and $26,738, (e) $77,133 and $74,318; D. E. Keeler Co., foot Marquette St., (a) $2208 and $2347, (b) $17,282, (c) $19,135, (d) $28,433 and $28,973, (e) $74,-449 and $71,563; McCarthy Improv. Co., 220 Main St., (a) $2232, (b) $17,700, (c) $19,-314, (d) $27,981 and $28,651, (e) $78,378 and $76,150. Noted July 12.

★Kan., **Manhattan**—City let contract installing storm sewer on Bertrand Ave. to Central Bridge Co., $11,691. Noted June 7.

★Wash., **Seattle**—City let contract building sewers in West and North 45th Sts., to Florito Bros., 1630 25th Ave., S., $18,115. Noted July 26.

Ore., **Portland**—City received low bids building sewrs in Powell Valley Rd. Dist., from J. F. Shea, 6 North 2nd St., $23,531; Jacobsen-Jensen Co., 407 Stanton St., $25,-486; J. Keating, Portland, $25,810.

BRIDGES

Proposed Work

S. C., **Charleston** — See "Streets and Roads."

Ky., **Paducah**—McCracken Co. plans to build several rein.-con. bridges. About $40,-000. R. H. Young, co. engr.

O., **Dayton**—Montgomery Co. to sell $15,-000 bonds Aug. 6 to build and repair bridges. W. H. Aszling, clk.

Ind., **Warsaw**—Kosciusko Co. plans to build viaduct under Pennsylvania R.R. About $28,000. Railroad to pay $21,000 toward cost.

Mont., **Virginia City** — (Official)—State Highway Comn. rejected bids for 1 130-ft. span combination highway bridge over Saline Spring Creek and 1 65-ft. combination highway bridge over Odell Creek, Madison Co. as too high. C. C. Adams, co. engr. Noted July 12.

Mo., **Linn**—City voted $20,000 bonds to build bridge over Osage River.

Okla., **Wetumka** — Town voted $34,000 bonds to build bridges and roads.

Wash., **Seattle** — Council appropriated $17,000 to build approaches to 15th Ave. northwest bridge from Nickerson St. side. A. H. Dimock, city engr.

Cal., **Fresno**—Fresno and Madero Cos. plans to rebuild Lane Bridge. About $19,-062. Address Co. Clk., Fresno.

BIDS DESIRED

N. J., **Camden**—Until Aug. 6, by Bd. Freeholders for 3-span rein.-con. bridge over Newton Creek, 219 ft. long, 50 ft. wide. J. J. Albertson, Magnolia, co. engr.

N. J., **Newark**—Until Aug. 27, by Bd. Freeholders Essex Co., for rein.-con. I-beam bridge over Peckman River, Little Falls Rd., also cross-drains and catch-basins. F. A. Reimer, co. engr.

N. J., **Salem**—Until Aug. 16, by Bd. Freeholders, Salem Co., building rein.-con. highway bridge and spillway at Avis Mills. H. P. Gray, dir.

Va., **Grundy**—(Official)—Until Aug. 6, by Comrs. Buchanan Co., for 246-ft. steel bridge over Dismal River, fill approaches.

Bridges (Continued)

Ga., Elberton—(Official)—Until Aug. 27, by Elbert and Madison Co. Comrs., Elberton building Towus lattice highway bridge over Broad River, 300 ft. long, 16 ft. wide, 3 split rock piers. J. McIntosh and G. O. Griffith, comrs.

Ky., Hartford—(Official)—Until Aug. 9, by F. M. Kaisersatt, aud. Ohio Co., building steel bridge over public ditch near Reynolds, involving 208 cu.yd. concrete, 31,800 lb. structural steel for 16-ft. roadway, 25 000 lb. 12-ft. roadway, 4900 lb. lumber 16 ft. roadway, 3740 lb. 12-ft. roadway. C. D. Snead, engr.

Ky., La Grange—(Official)—Until Aug. 10, by Oldham Co., building 3 concrete bridges on La Grange and Shelbyville Rd., involving 350 cu.yd. concrete all classes, and 10,304 lb. steel. R. Wiley, comr.

O., Canton—(Official)—Until Aug. 6, by Stark Co. Comrs., for repairing Tuscarawas River Bridge, Navarre-Justus Rd., involving 27,739 lb. new steel joists, 80 pieces new joist clips, etc. W. C. Schick, clk.

O., Troy—(Official)—Until Aug. 22, by Miami Co. Comrs. for removing Bridge No. 20 on I. C. H. No. 208 over Stillwater River at Covington, also building new structure. C. N. Peters, co. aud. Noted July 26.

Ind., Elkhart—Until Aug. 6, by Comrs. Elkhart Co., Goshen, for bridge over St. Joseph River on Elkhart Ave. County to appropriate $63,800 toward cost, Indiana & Michigan Electric Co., $18,400. C. L. Kinney, co. engr. Noted June 21.

Ill., Kankakee—Until Aug. 30, (readvertised) by Comrs. Kankakee and Will Cos., Court House, Kankakee, for rein.-con. arch bridge over Kankakee River between 2 counties; 7 spans 70-ft. long and 2 spans 68 ft. long with 20-ft. roadway. Cost bridge proper, $43,000; culvert approach, grades, spandrel fill and wearing surface, $7150. Noted June 28.

Minn., Waseca—(Official)—Until Aug. 6, by Waseca Co. Comrs., building 1 40-ft. girder span concrete bridge, 1 16-ft. slab span concrete bridge, 1 6 x 8 x 40-ft. rein.-con. culvert, concrete backing, wing walls for I-B bridge. T. Peterson, co. aud.

Neb., Tehamah — (Official)—Until Aug. 14 (readvertised) by M. S. McGrew, city clk., for rein.-con. highway bridge, 2 34-ft deck girder type spans and 150-ft. retaining walls. About $12,000. A. C. Arend, Brandies Bldg., Omaha, engr. Noted July 19.

Cal., Fairfield—Until Aug. 6 by Bd. Superv. Solano Co. for constructing bascule bridge over Sacramento River.

Cal., San Jose—(Official)—Until Aug. 6, by Bd. Superv. Santa Clara Co., building rein.-con. bridge over Llagas Creek on Church Ave., Superv. Dist. No. 1.

Cal., Somis—Until Aug. 14, by Bd. Supervs. Ventura Co., Ventura, for Center St. bridge, 4 mi. east of Somis, involving 94 cu.yd. concrete in abutments, 6 cu.yd. concrete in pavement slab, 7640 lb. reinforcing steel. J. B. McCloskey, clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., New York—(Official)—Boro. received low bid constructing Park Ave. viaduct from 40th St. to Grand Central Sta., from Terry & Tench, Grand Central Terminal, $57,020; Snare & Triest Co., Woolworth Bldg., $575,500; P. T. Cox Contr. Co., 7 Nassau St., $589,224.

★**Pa., Birdsboro**—Philadelphia & Reading R.R. let contract 5-span rein.-con. Bridge No. 85 to Bennett & Randall, Reading.

★**Ala., Birmingham**—(Official)—Bd. Revenue of Jefferson Co. let contract steel bridge over Warrior River to Southern Bridge Co., 39th St., 8c. per lb. Noted June 28.

O., Barberton—T. J. Davies, dir. pub. ser., received low bids for concrete and steel viaduct known as Tuscarawas Ave. Viaduct from E. J. Lauders, Canton and Hackendorn Constr. Co., 1134-6 Ind.-Pythian Bldg., Indianapolis, $183,980. Both bids were above amount appropriated for work. Noted June 28.

O., Miamisburg—W. H. Aszling, co. clk., Dayton, received low bids for steel superstructure for bridge No. 248 over Great Miami River, from Brookville Bridge Co., $114,700; Central States Constr. Co., 606 Beecher St., Indianapolis, $115,500; Illinois Bridge Co., 53 West Jackson Blvd., Chicago, $117,000. Noted July 5.

★**O., Youngstown** — (Official) — Youngstown Sheet and Tube Co., Stambaugh Bldg., let contract rebuilding bridge recently destroyed by tornado, 100 ft. high, 327 ft. long to Heyl & Patterson. Noted July 19.

★**Okla., Buffalo**—See "Railways."

★**Mich., Cassapolis**—Cass Co. let contract 18 bridges on Dowagiac River Drain to Reach Mfg. Co., Charlotte, $66,500.

★**Ill., Danville**—(Official)—Vermilion Co. let contract rein.-con. arch bridge, Sect. 6, Georgetown Twp. to Porter-McCully Constr. Co., Mackinaw, $19,500. Noted July 26.

★**Okla., Tulsa**—Tulsa Co. let contract Sand Springs Bridge to Canton Bridge Co., Weder Ave., Canton, $17,000.

Wash., Bellingham — Whatcom Co. Comrs., Marietta, received low bids for rein.-con. pier bridge from Worel & Co., Bellingham, $49,020; Illinois Bridge Co., Seattle, $54,220; Croxson & Kirk, Portland, $56,702.

Cal., Nicolaus—Sutter Co. Supervs., Yuba City, received low bids bridge over Feather River from W. C. Duncan Constr. Co., Sharon Bldg., San Francisco, $118,516; C. E. Cotton Co., $146,730; Clinton Constr. Co., 140 Townsend St., San Francisco, $148,880.

STRUCTURAL STEEL WORK

BIDS DESIRED

Va., Grundy—See "Bridges."
O., Canton—See "Bridges."
Cal., Fairfield—See "Bridges.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ala., Birmingham**—See "Bridges."
O., Dayton—See "Bridges."
O., Miamisburg—See "Bridges."

REINFORCED CONCRETE

Proposed Work

Ky., Paducah—See "Bridges."
Cal., Santa Ana—See "Miscellaneous."
Cal., Santa Barbara—See "Waterworks."

BIDS DESIRED

N. J., Camden—See "Bridges."
N. J., Newark—See "Bridges."
N. J., Salem—See "Bridges."
Ky., Hartford—See "Bridges."
Ky., La Grange—See "Bridges.",
Ill., Kankakee—See "Bridges."
Neb., Tehamah—See "Bridges."
Cal., San Jose—See "Bridges."
Cal., Somis—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. J., New Brunswick—See "Miscellaneous."
★**Pa., Birdsboro**—See "Bridges."
★**Pa., Phila.**—See "Industrial Works."
★**Fla., Panama City**—See "Streets and Roads."
O., Barberton—See "Bridges."
★**O., Cleveland**—See "Industrial Works."
★**Ind., Indianapolis** — See "Industrial Works."
★**Ill., Danville**—See "Bridges."
★**Ia., Waverly**—See "Waterworks."
★**Kan., Junction City** — See "Waterworks."
★**Ariz., Winslow**—See "Waterworks."
Wash., Bellingham—See "Bridges."

STREETS AND ROADS

Proposed Work

Massachusetts—(Official) — State Highway Comn., Boston, rejected bids building 14,600 ft. state highway, Egremont-West Boylston Twps. Noted July 19.

N. Y., Eastwood — (Official) — City rejected bids grading and macadamizing portion Blust St. L. B. Smith, clk. Noted July 19.

Pa., McKeesport — Council passed ordinance to improve portions Patterson, Garbett and Oakland Aves., and Craig and De Long Sts. J. M. Smith, city engr.

Delaware—(Official) — State Highway Comn., Dover, made surveys for proposed highway from Newark, Del., to Elkton, Md., 2.6 mi. in New Castle Co. Bids will be received about Aug. 30. County will bear cost of work. C. M. Upham, ch. engr. state highway dept.

Va., Newport News—City plans $100,000 bond issue for improving streets. Address the Mayor.

W. Va., Parkersburg—Wood Co. Court plans to pave 2 mi. of River Rd., about 2000 mi., between this city and Williamstown.

S. C., Charleston — Charleston Co. will vote Aug. 29 on $275,000 for improving roads and bridges.

Ga., Atlanta—City plans to repave portion North Ave. County to appropriate $15,000 toward cost. H. M. Hunt, city engr.

Fla., Key West—Monroe Co. election Aug. 14 to vote on $100,000 bonds to build hard surfaced road from Key West to Rock Island.

Fla., Milligan—Okaloosa Co. voted $50,000 bond issue for grading and hard surfacing portions of road in special road and bridge district.

Miss., Magnolia—Pike Co. Comrs. sold $10,000 bonds to build good roads.

Miss., Weathersby—Simpson Co. Comrs. sold $60,000 bonds to construct Central Highway. Address Co. Clk., Mendenhall.

La., Kenner—Town Council plans $25,000 bond issue for improving streets. Address the Mayor.

La., Lake Providence—Carroll Co. sold $100,000 bonds to build lateral roads and highway to Oak Grove, West Carroll Co. Noted May 10.

Tenn., Chattanooga—Hamilton Co. Highway Comrs. plans to build Manufacturers Rd., to be an extension of Frazier Ave. About $10,000.

Tenn., Clarksville — Montgomery Co. Comrs. voted $50,000 bond issue for building roads.

O., Bryan—Williams Co. to sell $21,000 bonds Aug. 3 to improve portion I. C. H. No. 306. G. C. Boucler, aud.

Ill., Belleville—Bd. Superv. St. Clair Co., sold $400,000 bonds to improve streets. Noted July 5.

O., Cincinnati—City Council plans resurfacing Larch Ave., bituminous macadam, paving Jones St., asphalt or bitulithic and Verdin Ave., brick. F. Krug, city engr.

O., Cincinnati—C. F. Hornberger, dir. pub. wks., soon lets contract repaving Lincoln Ave., with wood block; about $37,000; also improving Dayton St. with either granite and bitulithic or all granite; about $24,150 and $29,455 respectively.

O., Cleveland—City plans paving portions of East 123rd, East 128th, East 158th, East 160th, East 117th, East 157th, Korman, Olive and McElhatten Streets. R. Hoffman, city engr.

O., Warren—Trumbull Co. Comrs. sold $113,250 bonds to improve roads. W. Fahr, clk. Noted June 14.

Ind., South Bend—Bd. Wks. had new plans prepared for paving Mishawaka Ave. and Eddy St., about $199,800; also paving portion Dubail Ave., $44,000; F. J. Anderson, city engr.

Ill., Chicago—City plans extending Ogden Ave. from Union to Lincoln Park; also improving Robey St., Ashland and Western Aves. J. Ericson, city engr.

Ill., Galesburg—City plans to build 133,000 sq.ft. sidewalk on North Seminary St., cement. About $25,376. F. M. Connolly, city engr.

Ill., Hillsboro—City plans paving Hamilton, Brailey and Water Sts. and Springfield Rd.

Ia., Des Moines—City passed resolution to widen and grade portion North Union St., 50 ft. K. Kastberg, city engr.

Minn., Duluth—St. Louis Co. voted $90,000 bond issue to improve roads. O. Halden, aud.

Kan., Beloit—City plans paving portion of Mill St. C. R. Herrick, clk.

Kan., Wichita—City plans paving portion James St. B. Wells, city engr.

Neb., Lincoln—Comrs. Paving Dist. No. 18, Lancaster Co., plan to build highway joining Lincoln and University Pl., brick.

Neb., Lincoln—City plans paving portion L St. A. Dobson, city engr.

Mo., Independence—Jackson Co. plans to build roads. About $70,000. Federal Government to appropriate $35,000 toward cost.

Mo., New Madrid—New Madrid Co. election Aug. 3 to vote on $800,000 bonds to build highways. Noted July 5.

Mo., Sedalia—City passed ordinance for paving and building sidewalks, portions of Quincy Ave., also curbing East 5th St. F. T. Leaming, city engr.

Arkansas — E. H. McGill, engr. State Highway Dept., Little Rock, had plans prepared building road from Melbourne to Mt. Olive, a link in Hot Springs-Mammoth Spring State Highway.

Ark., Berryville—Carroll Co. Comrs. voted $75,000 bond issue for improving roads.

Tex., Cameron.— State Atty. General's Dept., Austin, approved $20,000 bond issue to build good roads in Milam Co., Rd. Dist. No. 7 and $15,000 bond issue for same purpose in Rd. Dist. No. 12.

Streets and Roads (Continued)

Tex., Center—(Official)—Shelby Co. election Sept. 1 to vote on $600,000 bond issue to build roads. R. H. McCauley, clk. Noted July 19.

Tex., Lavaca—County election Aug. 14 to vote on $75,000 bond issue to improve roads in Dist. No. 2.

Tex., Victoria—City soon lets contract paving various streets. About $300,000. A. Block, city engr.

Okla., Buffalo—Harper Co., Good Twp., voted $13,500 bond issue for building roads.

Okla., Fallis—(Official)—Lincoln Co. sold $16,000 bonds to build roads. Address Co. Clk., Chandler. Noted July 19.

Washington—State Highway Comn., Seattle, soon lets contract constructing about 18 mi. Central Washington Highway in Franklin Co., to cost $60,000. County will gravel and surface road next year, $30,000.

Wash., Ellensburg—City plans concrete walks portion 2nd, 4th, 7th, Sprague and Ruby Sts. About $12,000.

Wash., Everett—Snohomish Co. Comrs. rejected bids hardsurfacing Bond Issue Propositions Nos. 26 and 29. New bids. W. C. Bickford, co engr. Noted July 5.

Wash., Port Angles—Council passed ordinance to pave, grade, and build sewers, ditches and culverts on several streets. About $20,000.

Wash., Port Orchard—Kitsap Co. Comrs. rejected bids building and improving Permanent Highway No. 1-C. New bids. F. D. Gore, co. engr Noted July 5.

Wash., Seattle—City had plans prepared planking, etc., on Northlake Ave., about $84,873; paving portions 24th Ave. N. and East Montlake Pl., $10,000, Beacon Ave., $70,000. A. H. Dimock, city engr.

Wash., South Bend—Pacific Co. Comrs. to sell $275,000 bonds Aug. 7 to build highway. E. E Decker, co. treas.

Oregon—State Highway Comn. soon lets contract paving 10 mi. road between Monroe and Junction City, in Benton and Lane Cos.

Oregon—State Highway Comn. plans grading and paving portions Lower Columbia River Highway. About $435,000.

Ore., Condon—Gilliam Co. soon receives bids macadamizing portion Canyon Rd. About $15,000.

Cal., Eureka—City plans paving B'way., concrete base and asphalt surface. About $50,000. G. A. Strand, city engr.

Cal., Glendora—City sold $10,000 bonds to improve streets.

Cal., Oceanside—City election soon to vote on bonds to pave Hill St., from north to south boundaries of city, concrete.

Cal., Santa Barbara—City soon lets contract paving San Andreas, Canon, Perdio, and Marilla Sts., 4-in. concrete, 2-in. asphalt surface, concrete curbs and gutters; also vitr. pipe sewers. A. B. Cook, city engr.

BIDS DESIRED

N. Y., Buffalo—Until Aug. 7, by A. C. Hinkley, clk. bd. supvrs. Erie Co., for Co. Rd. No. 22, Glenwood-East Concord Part 1.

N. Y., New York—Until Aug. 8, by M. M. Marks, boro. pres., Municipal Bldg., furnishing and delivering 1000 tons limestone dust, 350,000 gal. refined asphalt 15,000 cu. yd. asphaltic wearing surface.

N. Y., New York—Until Aug. 8, by M. M. Marks, boro. pres., Municipal Bldg., regulating, repaving with sheet asphalt, portion roadways Pine, West 162nd St. and Broadway.

N. Y., New York—Until Aug. 9, by Park Bd., Dept. Parks, Municipal Bldg., repaving cement walks, Battery Pk., paving and repaving walks of Central and other parks, asphalt mastic. C. Ward, pres.

N. Y., S. I., St. George—Until Aug. 6 by C. D. Van Name, boro. pres., Boro. Hall, regulating and repaving with bituminous concrete portion roadway Wright Ave.

N. Y., S. I., St. George—Until Aug. 7 by C. D. Van Name, boro. pres., Boro. Hall, St. George, furnishing and delivering 650 cu.yd. 1- to 2-in. broken stone, 300 cu.yd. screenings of trap rock, Dist. No. 1; 900 cu.yd. 1- to 2-in. broken stone, 450 cu.yd. screenings of trap rock, Dist. No. ; 1040 cu.yd. 1- to 2-in. broken stone, 100 cu. yd. screenings trap rock, Dist. No. 3.

N. J., Atlantic City—Until Aug. 8, by Bd. Freeholders Atlantic Co., for furnishing 190,000 gals. lignin binder known as glutrin for Absecon, Hammonton, Egg Harbor City, Mays Landing and Pleasantville. A. H. Nelson, co. engr.

N. J., Elizabeth—Until Aug. 9, by Bd. Pub. Wks., paving Monroe Ave., sheet asphalt, 6-in. concrete foundation. O. E. Collins, city engr.

N. J., Freehold—Until Aug. 14, by E. C. White, chn. twp. com. for improving 6790 sq.yd. Hamilton-Glendola Rd. with gravel surface.

N. J., Mountainside—(Westfield P. O.)—Until Aug. 8, by Bd. Freholders Union Co., repairing Mountain Ave., 5000 lin.ft. stone and tarvia. J. L. Bauer, co. engr.

N. J., Newark—(Official)—Until Aug. 27 (change of date) by Bd. Freeholders Essex Co., improving Little Falls Rd., bituminous concrete, Type A, Cedar Grove Twp., also constructing concrete I-beam bridge over Peckham River, Little Falls Rd. F. A. Reimer, co. engr. Noted June 28.

N. J., Stone Harbor—Until Aug. 21, by Cape May Co. Comrs., Cape May for constructing stone road through here. L. M. Rice, Wildwood, co. engr.

Md., Rockville—(Official)—Until Aug. 7 by Comrs. Montgomery Co., for State aid highway; advertised in this issue. Noted June 28.

Va., Portsmouth—Until Aug. 9 by Comrs. Norfolk Co., for building new Jamestown Blvd. with bituminous macadam on concrete base.

Ga., West Point—Until Aug. 7 by City paving, grading, curbing, draining, building sidewalks various streets, concrete, brick or asphalt. About $60,000. L. Strong clk. Noted July 5.

Fla., Tampa—Until Aug. 14, by Comrs., Hildsborough Co. for building hard surfaced road in Wimauma Spl. Rd. & Bridge Dist. W. P. Culvreath, clk. Noted May 17.

Miss., Friar Point—Until Aug. 7, by Bd. Aldermen, for building 120,000 sq.ft. concrete sidewalks. M. Y. Scott, city clk.

Miss., Indianola—Until Aug. 17 by J. E. Johnson, chancery clk., for 25-mi. gravel road in Sunflower Co.

Louisiana—Until Aug. 6, by Highway Dept., Bd. State Engrs., New Orleans Court Bldg., New Orleans, for building 33-mi. gravel road in Road Dist. No. 1, Coupee Parish. F. M. Kerr, ch. engr.

Tenn., Savannah—Until Aug. 16, by J. E. Holland, chn. highway comn., for building 40 mi. gravel road in Hardin Co. F. M. Patton, Savannah, engr.

Ky., Hazards—Until Aug. 16, by city improving various streets. About $30,000.

Ky., Jenkins—Until Aug. 17, by City improving streets. About $20,000. L. B. Abbott, engr.

Ky., Owensboro—Until Aug. 6, by Fiscal Court of Daviess Co., for improving Henderson Rd., involving 11,888 cu.ft. excav., 57 cu.yd. concrete, 2318 tons broken stone, or 1756 cu.yd. river gravel.

Ky., Owensboro—Until Aug. 6, by Fiscal Court, Daviess Co., for improving 3.54 mi. Hardinsburg Rd. involving 33,620 cu.yd. excava. and 32.3 cu.yd. concrete. J. Weir, co. clk. Noted July 26.

Ky., Whitley City—Until Aug. 11, by City and McCreary Co. for improving streets. About $10,000.

Ohio—Until Aug. 15, by State Highway Comn., Columbus, building roads as follows: Asntabula Co., Sect. "C," Youngstown-Conneaut Rd., I. C. H. 13, grading roadway, building bridges and culverts and paving with either monolithic brick or concrete, 5 mi., about $114,656; Auglaize Co., Sect. "A-1," Wapakoneta-St. Marys Rd., I. C. H. 165, brick, rein.-con., Warrenite or waterbound macadam, 1.79 mi., $33,953; Clark Co., Sect. "A-1" Springfield-Jamestown Rd., I. C. H. 472, grading roadway, building bridges and culverts and paving with bituminous macadam, 1.54 mi., $32,145; Coshocton Co., Sect. "A," Mt. Vernon-Coshocton Rd., I. C. H., 339, bituminous macadam or waterbound gravel, 3.60 mi., $47,993; Crawford Co., Sect. "J," Columbus-Sandusky Rd., I. C. H. 4, brick, 1.02 mi., $29.957; Sect. "G," Bucyrus-Upper Sandusky Rd., I. C. H., 200, 1.31 ml., $39,141; Cuyahoga Co., Sect. "A," Chagrin Falls-Cuyahoga Falls Rd., I. C. H., 91, either brick or monolithic brick, 2.73 mi., $90,356; Fairfield Co., Sect. "A-1," Baltimore-Reynoldsburg Rd., I. C. H., 461, waterbound macadam, 2.25 mi., $31,241; Sect. "M-2," Cincinnati-Zanesville Rd., I. C. H., 10, waterbound macadam, 3.22 mi., $45,003; Guernsey Co., Sect. "L," Cambridge-Caldwell Rd., I. C. H., 353, bituminous macadam, 1.25 mi., $17,978; Harrison Co., Sect. "P," Steubenville-Cambridge Rd., I. C. H., 26, waterbound macadam, 1.60 mi., $19,346; Holmes Co., Sect. "A," Navaree-Berlin Rd., I. C. H., 79, grading only, 2.69 mi., $14,633; Knox Co., Sect. "A," Mt. Vernon-Mt. Gilead Rd., I. C. H., 333, rein.-con., 2.22 mi., $57,385; Lake Co., Sect. "B," Euclid-Chardon Rd., I. C. H., 34, rein.-con. 2.25 mi., $36,163; Mahoning Co., Sect. "U-1," Akron-Canfield Rd., I. C. H., 87, waterbound macadam, 1.13 mi., $13,500; Sect. "A-1," Niles-Canfield Rd., I. C. H., 328, waterbound macadam, 1.20 mi., $14,131; Sect. "Y," Canfield-Poland Rd., I. C. H., 486, waterbound macadam, 1.88 mi., $22,124; Sect. "U," Youngstown-Lowellville Rd., I. C. H., 14, brick 1.50 mi., $48,280; Medina Co., Sect. "A-2," Elyria-Medina Rd., I. C. H., 314, concrete, 0.97 mi., $13,251; Morgan Co., Sect. "H," McConnellsville-Athens Rd., I. C. H., 162, waterbound macadam, 2.34 mi., $46,555; Muskingum Co., Sect. "M-1," Zanesville-Dresden Rd., I. C. H., 344, concrete, bituminous macadam or non-bituminous macadam, 0.99 mi., $16,690; Putnam Co., Sect. "H," Kalida-Lima Rd., I. C. H., 134, grading only, $6695; Sandusky Co., Sect. "O," Fremont-Castalia Rd., I. C. H., 281, brick, 1.30 mi., $35,719; Scioto Co., Sect. "A-1," Portsmouth-Lucasville Rd., I. C. H., 406, brick or monolithic brick, or bituminous macadam, 3.01 mi., $79,012; Stark Co., on Section "B-2," Canton-New Franklin Rd., I. C. H. 72, brick, 1.17 mi., $44,483; Warren Co., Sect. "B," Dayton-Lebanon Rd., I. C. H. 64, waterbound macadam, 2.65 mi., $19,940.

Ohio—Until Aug. 16, by State Highway Comn., Columbus, building roads as follows: Athens Co., Sect. "A," Athens-Hockingport Rd., I. C. H. 156, grading roadway, building bridges and culverts and paving with brick, 1.34 mi., about $32,840; Butler Co., Sect. "I," Hamilton-Middleton Rd., I. C. H., 179, rein.-con. and monolithic brick, 3.18 mi., $76,914; Butler Co., Sect. "J," Hamilton-Middletown Rd., I. C. H. 179, rein.-con. and monolithic brick, 3.54 mi., $81,814; Clermont Co., Sect. "I," Ohio River Rd., I. C. H., 7, bituminous macadam, 4.12 mi., $27,654; Erie Co., Sect. "P," Sandusky-Norwalk Rd., I. C. H., 294, concrete or brick, 0.46 mi., $24,652; Erie Co., Sect. "O," Sandusky-Clyde Rd., I. C. H., 276, rein.-con. 1.53 mi., $30,943; Franklin Co., Sect. "Q," Columbus-Sandusky Rd., I. C. H., 4, bituminous macadam, 1.96 mi., $38,987; Fayette Co., Sect. "M," Hillsboro-Washington Rd., I. C. H., 259, waterbound macadam, 2.29 mi., $23,065; Fulton Co., Sect. "K-1," Archbold-Fayette Rd., I. C. H., 301, waterbound macadam, 1 mi., $13,729; Gallia Co., Sect. "F-1," Gallipolis-Jackson Rd., I. C. H., 399, bituminous or waterbound macadam, 1.65 mi., $18,317; Gallia Co., Sect. "A-1," Ohio River Rd., I. C. H., 7, waterbound gravel or concrete and gravel, 1.69 mi., $18,424; Sect. "E-1," Gallipolis-Ironton Rd., I. C. H., 405, waterbound macadam, 1.70 mi., $21,700; Geauga Co., Sect. "K," Cleveland-Meadville Rd., I. C. H., 15, concrete, 2.80 mi., $37,693; Sect. "B," Hampden-Andover Rd., I. C. H., 475, rein.-con., 2.63 mi., $33,316; Hardin Co., Sect. "A," Kenton-Upper Sandusky Rd., I. C. H., 229, rein.-con., bituminous macadam or bituminous concrete, 1.35 mi., $35,701; Hocking Co., Sect. "J," Logan-Chillicothe Rd., I. C. H., 363, waterbound gravel, 1.89 mi., $27,537; Huron Co., Sect. "A," Savannah-Vermillion Rd., I. C. H. 149, concrete or monolithic brick, 2.12 mi., $25,401; Knox Co., Sect. "K," Columbus-Wooster Rd., I. C. H., 24, rein.-con. 1.61 mi., $46,389; Lawrence Co., Sect. "K," Ohio River Rd., I. C. H., 7, concrete or bituminous macadam, 0.97 mi., $20,026; Sect. "E," Ironton-Miller Rd., I. C. H., 404, bituminous macadam, 1 mi., $16,152; Licking Co., Sect. "E," Newark-Fallsburg Rd., I. C. H., 479, waterbound macadam, 1.45 mi. $33,167; Lorain Co., Sect. "I," Ashland-Oberlin Rd., I. C. H., 144, concrete or bituminous macadam, 1.71 mi., $26,840; Mahoning Co., Sect. "R-1," Akron-Youngstown Rd., I. C. H., 18, waterbound macadam, 0.98 mi., $11,228; Sect. "P," Akron-Youngstown Rd., I. C. H. 18, brick, 1.11 mi., $23,464; Ottawa Co., Sect. "G," Port-Clinton-Marblehead Rd., I. C. H., 440, brick, 1 mi., $38,008; Portage Co., Sect. "V," Akron-Youngstown Rd., I. C. H., 18, concrete, bituminous macadam and monolithic brick, 2.59 mi., $57,838; Putnam Co., Sect. "G," Kalida-Lima Rd., I. C. H., 134, waterbound macadam, 1.42 mi., $11,049; Ross Co., Sect. "N," Chillicothe-Lancaster Rd., I. C. H., 361, semi-monolithic brick, 1.34 mi., $41,494; Stark Co., Sect. "G," Ravenna-Louisville Rd., I. C. H., 74, bituminous macadam, 2.52 mi., $54,571; Trumbull Co., Sect. "C," Warren-Meadville Rd., I. C. H. 330, bituminous macadam, 3.38 mi., $32,354; Sect. "A-1," Canfield-Niles Rd., I. C. H. 328, brick, 0.73 mi., $29,689; Vinton Co., Sect. "A," Gallipolis-McArthur Rd., I. C. H. 398, $4911; Williams Co., Sect. "L," Bryan-Pioneer Rd., I. C. H. 306, waterbound or bituminous macadam, 3.81 mi., $69,260; Wyandot Co., Sect. "A-2," Upper Sandusky-Kenton Rd., I. C. H. 229, brick, 0.24 mi., $7697; Sect. "A," Upper Sandusky-Tiffin Rd., I. C. H. 266, brick, 0.96 mi., $29,897.

O., Canton—Until Aug. 8, by Bd. Comrs. Stark Co., for improving 8th St. N. E., involving 10,145 cu.yd. sub-grade excava., 3200 sq.yd. vitr. block paving, 2500 lin.ft. stone curb, 170 lin.ft. circle stone curb and 165 lin.ft. stone or concrete pavement headers.

Streets and Roads (Continued)

O., Cincinnati—(Official)—Until Aug. 13, E. Von Bargen, purch. agt., City Hall, for furnishing about 30,000 gal. coal tar bituminous road surfacing material to treat both waterbound and bituminous asphalt and bitulithic streets; also for 40,000 gal. paving pitch to use as filler in brick and granite pavement. F. Krug, city engr.

O., Cincinnati—Until Aug. 17, by A. Reinhardt, clk. bd. comrs. for improving Plainsville Rd. from Wooster Pike to corporation limits of Cincinnati; also parts of Livingston Rd., Hamilton Co.

O., Coshocton—Until Aug. 9, by S. Ashman, serv. dir., for paving 18,000 sq.yd. on Sycamore and 3rd Sts., brick

O., Dayton—Until Aug. 6, by Dept. Pub. Ser., for paving portions Leo, Pitts and Foundry Sts. F. O Eichelberger, city engr.

O., Medina—Until Aug. 15 by W. P. Ainsworth, city clk., paving and grading Prospect, South B'way, Smith Rd. and North Court St., vitr. brick, concrete base; also setting curbs, building storm sewers, culverts, drains and retaining walls.

O., Pioneer—(Official)—Until Aug. 15, by W. W. Coulon, village clk., for paving various streets, about 13,000 sq.yd. surface. L. A. Boulay Co., 1248-51 Nicholas Bldg., Toledo, engrs.

O., Sandusky—(Official)—Until Aug. 13 by City Comrs., for paving portions of Adams, Fulton, Division and Boult Sts. and Maple Ave. F. Johnston, city engr. Noted July 26.

O., Westerville—Until Aug. 11, by R. S. Bennett, village clk., for curbing, paving, grading, draining and laying water and sewer laterals on various streets; also paving and curbing Park St.

Ind., Wabash—(Official)—Until Aug. 7, by F. Kircher, co. aud., grading Hains Rd. No. 1 and 2. About $10,000. Noted July 12.

Ia., Burlington—(Official)—Until Aug. 5, by A. F. Felker, aud. Des Moines Co., for grading about 15,000 cu.yd. Bottom Rd., and Mile 2, Wapello Rd. M. L. Hutton, co. engr.

Ia., Council Bluffs—Until Aug. 6, by E. V. Gustafson, city clk., for paving portion of Military Ave., 16-in. concrete. Noted June 7.

Neb., Grand Island—Until Aug. 7, by City, for paving Walnut, 10th St. and other streets, vertical fiber brick, sheet asphalt, etc. About $100,000. H. W. Kibley, city engr.

Neb., Plattsmouth—Until Aug. 13, by City, for 12,859 yd. paving, brick or wire cut brick, and 7442 ft. curbing in Dist. No. 13. J. F. Warga, clk.

Mo., Jefferson City—Until Aug. 6 by City Council, curbing and guttering Adams St. with cement and macadamizing with asphalt binder. P. C. Harding, city engr.

Mo., St. Louis—(Official)—Until Aug. 14, by Bd. Pub. Ser., for improving alley in City Block No. 3995 with vitr. brick. St. Charles St., treated wood-block pavement and Wilcox Ave., vitr. brick pavement and concrete curb. E. R. Kinsey, pres.

Ark., DeVall Bluff—Until Aug. 6, by W. H. Wheeler, pres. dist. comrs., for improving roads in Rd. Dist. No. 3, Prairie Co., involving 2½ mi. macadam, 4420 cu.yd. embankment, 80 cu.yd. concrete and 4066 tons crushed rock.

Idaho—Until Aug. 10, by Secy. State Highway Comn., Boise, building 17 mi. Idaho-Utah highway in Bannock Co.

Utah, Salt Lake City—Until Aug. 14, by City Rec., for paving Virginia and Alta Sts. and 3rd and 4th Aves., also grading, curbing, guttering and paving of Pavement Extension No. 137. S. Q. Cannon, city engr.

Washington—Until Aug. 20, by State Highway Bd., Olympia, for clearing, grading, draining and surfacing Sect. State Rd. No. 21 between Clifton and Charleston, Kiptsap Co.

Wash., Seattle—(Official)—Until Aug. 10, by Comrs. Park Bd., for resurfacing Blaine Blvd., 2500 lin.ft. asphaltic concrete, 1100 lin.ft. monolithic brick, 24 ft. wide. About $10,000. P. Cotterill, secy. A. H. Dimock, city engr. Noted July 19.

Wash., Walla Walla—Until Aug. 10, by Bd. Comrs. Walla Walla Co., for building Permanent Highway No. 16 and repaving and resurfacing College Ave.

Cal., Santa Ana—Until Aug. 8, by Bd. Superv. for surfacing about 142,256 sq.ft. of Grand Ave. and about 142,256 sq.ft. of Huntington Beach Rd. with Bitucrete, wearing surface. W. B. Williams, co. clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Massachusetts—State Highway Comn., Boston, received low bids building roads Egremont-Sheffield Twp. from L. C. Fay & Co., 318 Main St., Springfield, $49,442; Cordner & Montague, 433 Bay St., Springfield $54,231.

★**Massachusetts**—(Official)—State Highway Comn., Boston, let contract building 14,600 ft. state highway, Worcester-West Boylston Twps. to R. H. Newell Co., Uxbridge, $44,800. Noted July 19.

★**Mass., Boston**—City let contract paving portion Commonwealth Ave., 3-in. st. aspha, to Central Constr. Co., 288 Southampton St., Roxbury, $119,975. Noted May 3.

★**Mass., Dorchester** — City let contract paving portion Dorchester Ave. to J. Doherty, 133 Calumet St., Roxbury, $40,336. Noted July 26.

★**R. I., Pawtucket**—(Official)—City let contract paving Broad St. to E. B. Roberts Constr. Co., 2 North St., Pittsfield, Mass., $4.47 per sq.yd.

★**Connecticut**—J. C. Bennet, state highway comr., Hartford, let contract building highway to E. Tracy Derby, $42,000.

★**Conn., New Haven**—City let contract laying 5 mi. cement walks, Spring Glen Manor, and 14,000 sq.ft. granolithic walks, Tuberculosis Hospital, West New Haven, to New Haven Engineering & Constr. Co., 82 Church St.

N. Y., Albany—State Highway Comn., 55 Lancaster St., received low bids building highways in various counties as follows: Rd. No. 1405, Thompson's Lake-Van Auken Corner, Albany Co., 2.93 mi., Graylock Constr. Co., New York City, $19,934, Klein-Zwick Co., Albany, $24,411; Rd. No. 1300, Barnes Corners-West Lowville, Pt. 2, Lewis Co., 8.82 mi., Dale Engr. Co., Utica, $118,-975; Rd. No. 1321, Conesus-Wayland, Livingston Co., 8.34 mi., Atlanta Constr. Co., Wayland, $131, 537, P. H. Murray, Rochester, $151,568; Rd. No. 1361, Oneida Lake-South Bay and Oneida-South Bay, Pt. 2, Madison Co., 5.65 mi., Graylock Constr. Co., New oYrk City, $49,292; Rd. No. 5280, Little Neck-Old Westbury, Pt. 2, Nassau Co., 1.57 mi., J. McAvoy, New York City, $37,504, Jos. Capek, Inc., Astoria, N. Y., $37,936, R. W. Smith Corp., New York City, $37,955; Rd. No. 5604, Utica-Poland, Pt. 1, Oneida Co., 1.05 mi., H. W. Roberts & Co., Utica, $47,765; Rd. No. 1208, East Islip-Smithtown Branch, Suffolk Co., 9.57 mi., R. W. Smith Corp., New York City, $170,951; Rd. No. 5571, White Plains-East View, Westchester Co., 4.29 mi., Leo. T. Welch, Albany, $29,278, F. G. Fowler Constr. Co., Mt. Kisco, $51,835.

★**N. Y., Albany**—City let contract repaving portion Delaware Ave. to P. W. Mulderry, $140,103; Northern Blvd. to M. F. Dolard, Manning Blvd., $30,047; Euclid, Lenox, Homestead Aves., Glenwood, Parkwood and other streets to R. C. Sheehan, $43,312.

N. Y., Brooklyn — (Official) — L. H. Pounds, boro. pres. received low bids regulating, curbing and paving portion of 19th Ave., asphalt, 6-in. concrete foundation from Brooklyn Alcatraz Asphalt Co., 47 Hamilton Ave., $21,381; Cranford Co., 52 9th St., $21,077.

★**N. Y., Irvington** — **Town** let contract grading, clearing, curbing and paving portions of Cummings St. and Ridgewood Ave. to J. Dorer, 646 Nye Ave. About $24,352.

N. Y., Long Island City—Park Bd., Municipal Bldg., received low bid regulating, grading and paving Washington Ave. across Jacob Rils Park, concrete, from E. F. Monahan, Manhattan Beach, Brooklyn, $23,033. Noted July 19.

N. Y., Long Islaand City—M. M. Connolly, boro. pres., received low bids regulating, recurbing and repaving with asphaltic concrete portion (a) 5th Ave., (b) Thomaston Ave., wood blocks and improved granite blocks (c) Payntar Ave., granite blocks, (d) Hamilton St., sheet asphalt, (e) Grand Ave., (f) regulating, grading, curbing, laying sidewalks, portion 51st St., from Cleveland Trinidad Paving Co., Flushing, (a) $60,907, (e) $40,102; Leonard Paving Co., 233 Bway., New York City, (b) $28.937; E. Fitzpatrick, 128 3rd Ave., Astoria, (c) $11,733, (f) $8278; Borough Asphalt Co., 1301 Metropolitan Ave., (d) $10,602, (e) $38,996; Uvalde Asphalt Paving Co., 1 Bway., New York City, (a) $61,-680, (d) $10,774, (e) $35,751.

N. Y., New York—D. Mathewson, boro. pres., received low bids repaving portion (a) St. Anns Ave., sheet asphalt, redresed granite blocks (b) Stebbins Ave., sheet asphalt, concrete foundation (c) Sedgwick Ave., granite blocks, sand foundation (d) Morris Ave., bituminous concrete, cemnet concrete foundation, (e) White Plains Rd., sheet asphalt, concrete foundation, (f) East Tremont Ave., waterbound macadam, (g) Dyre Ave., from Davney Asphalt Co., 53 Vanderbilt Ave., (a) $20,212, (b) $71[illegible] (d) $12,353, (e) $12,089; Asphalt Constr. Co., Madison Ave. and 137th St., (b) $691 (d) $12,013, (e) $11,908; Leonard Paving Co., 233 Bway., (c) $74,875; Uvalde Asphalt Paving Co., 1 Bway., (d) $[illegible]510, (e) $11,760; F. V. Smith, Lafayette Ave. and Westchester Creek, (f) $15,43[illegible] (g) $10,360.

★**N. Y., Rochester**—City let contract paving, building sewers and walks on Marigold, Goodman and other streets to F. V. Brasch Co., E. & B. Bldg., $75,000. Noted July 19.

★**N. Y., Syracuse**—Bd. Contract & Supply let contract paving Ackerman Ave. asphalt, Hillside brick, to T. Hockway Constr. Co., Bastable Blk., $34,561.

N. J., New Brunswick—City received low bids paving Stratford and Llewellyn Pl. and Powers St., concrete, from Utility Constr. Co., 46 Paterson St., $15,730; T. H. Riddle, 102 Church St., $15,990.

★**N. J., Rahway**—City let contract 20,000 ft. material for street improvements to Fireprof Products Co., Rahway, $1.29 per sq.ft.

★**N. J., Ridgewood** — City let contract 27,000 sq.yd. paving on Prospect St., West Ridgewood and Goodwin Aves., concrete or bitulithic concrete, to Standard Bitulithic Co., 50 Church St., New York City.

★**Pa., Erie**—City let contract paving portion 17th St., asphalt, to J. J. Doyle, Erie, $17,500.

★**Pa., Johnstown**—Comrs. Cambria Co., Ebensburg, let contract grading and paving 4 mi. brick road in Adams Twp., to Portage Concrete Constr. Co., Portage, $57,-800 and J. L. Elder, Ebensburg, $59,000.

★**Pa., McKeesport**—City let contract improving Brown Ave. to F. H. Crozier, $10,-698.

★**Pa., McKees Rocks** — Comrs. Stowe Twp., c/o Andrew & Southard, Curry Bldg., Pittsburgh, let contract paving B'way., concrete base, to Bryan & McDermott, McKees Rocks, $13,000.

★**Pa., Pittsburgh**—Co. Comrs. rescinded contract awarded to Pittsburgh Amiesite Co., Jenkins Bldg., for improving Lovedale Rd. and relet contract to D. McNeil Co., $70,537. Noted July 12.

★**Del., Wilmington**—Comrs. New Castle Co. let contract resurfacing portion Foulk Rd. to A. H. McDowell, Marshalltown.

W. Va., Kingwood—Preston Co., Portland Dist., let contract building 7.3 mi. 15-ft. roadway to C. Spindler, Kingwood. About $175,000. Noted June 7.

★**N. C., Kenilworth**—Town let contract building 2 mi. roads, concrete, to Asheville Paving Co., Asheville.

★**Miss., Yazoo**—Yazoo Co. Comrs. let contract building road, 2065 mi. vitr. brick to Southern Paving & Constr. Co., James Bldg., Chattanooga, $32,854; grading, 28 mi. to Healy Constr. Co., Meridian, $78,128.

★**Louisiana**—(Official)—Bd. State Engrs., New Orleans, let contract building 6-mi. Sect. 4 Arkansas Highway, Caddo Co., to J. M. Montgomery, Shreveport, $15,411. Noted July 19.

★**O., Cleveland**—Bd. Control let contract paving portion of East 55th St. to A. M. Pejea Paving Co., 2359 East 93rd St., $43,-174. Noted June 14.

★**O., Springfield**—City let contract paving portion Sherman Ave. to R. J. Cavanaugh, Springfield, $11,628.

Ind., Elkhart — (Official) — City received low bids (bids July 20) paving Edwardsburg Ave., brick, from Northern Constr. Co., Elkhart, $28,500; Greenleaf St., bitulithic macadam, E. Atkins, Elkhart, $21,400.

★**Mich., Escanaba** — City let contract paving Harnett Ave. to Wells crossing, bitulithic, to General Contr. Co., 1254 Plymouth Bldg., Minneapolis, $10,000.

★**Ill., Rock Island**—City let contract paving portion 13th Ave., brick and 24th St., asphalt, to Tri-City Constr. Co., 315 Putnam Bldg., Davenport. Noted May 1.

★**Ia., Davenport**—Bd. Local Improv. let contract repaving portion 2nd St., bitulithic, to W. Horrabin, $25,895. Noted July 12.

★**Ia., Des Moines**—City let contract paving portion West Grand Ave., bitulithic, to J. Horrabin & Co., 11th and Vine Sts., $2.59 per yd.

★**Minn., Albert Lea**—Freeborn Co. let contract widening Jefferson Highway to B. F. Gallea, Albert Lea.

★**Minn., Winona**—**Union Co.** let contract grading road between St. Charles and Dutchman's Crossing to G. E. Smith, Winona, $13,000.

Neb., Lincoln—Comrs. Lancaster Co., received low bid paving and grading Dist. No. 16, (a) monolithic, (b) concrete, from Roberts Constr. Co., Lincoln, (a) $2.03 per ft.; (b) $1.63 per ft.; Burke-Cochran Co., Lincoln, (a) $2.06 per ft.; (b) $1.75 per ft. Noted July 5.

Streets and Roads (Continued)

★Wyo., **Casper**—City let contract paving, grading and curbing in Dist. No. 2 to Warren Constr. Co., 14 Assn. Bldg., Portland, Ore. About $49,380. Noted July 5.

★Ark., **Pine Bluff**—Co. Comrs. Jefferson Co. Rd. Improv. Dist. No. 19 let contract building 18½ mi. gravel roads, bituminous carpet top, to W. P. McGeorge & Co., Pine Bluff. Noted June 28.

★Ark., **Pine Bluff**—(Official)—Comrs. Rd. Improv. Dist. No. 21, let contract building 5 mi. gravel road, bituminous carpet cover to W. P. McGeorge & Co., Pine Bluff. About $39,000. Noted July 12.

★Tex., **Amarillo**—City let contract paving 18 blocks, brick, vibrolithic and asphalt concrete to Vibrolithic Constr. Co., Terminal Bldg., Dallas; 12,000 sq.yd. at $1.94 per sq.yd., 60c. for guttering; 12,000 sq.yd. asphaltic concrete, to F. P. McCormick, Columbus Bldg., St. Louis, $1.90, curb and gutter, 65c.; 12,000 sq.yd. brick paving to C. E. Willmering Paving Co., Amarillo, $2.03, guttering, 65c. Noted Apr. 12.

★Tex., **Victoria**—(Official)—City let contract paving 8 streets, asphaltic concrete, bitulithic, sheet asphalt, Uvalde rock asphalt, vertical fibre brick, portland cement concrete and 2 course concrete to Uvalde Rock Asphalt Co., San Antonio, $104,521. Noted July 12.

★Idaho, **Idaho Falls**—City let contract paving 6000 sq.yd. South Ridge Ave. to J. C. Maguire, Butte, Mont., $11,640.

★Wash., **Everett**—City let contract paving portion Everett Ave. to Grant & Erving, Everett, $18,502. Noted June 28.

★Wash., **Seattle** — Comrs. King Co. let contract grading 2½ mi. Permanent Highway No. 2 to L. H. Goerig, Seattle, $45,000. Noted July 12.

★Wash., **Spokane** — (Official) — Spokane Comrs. let contract paving 2.62 mi. permanent highway to H. C. Root, Spokane, $35,-825. Noted July 12.

★Ore., **Grants Pass**—Josephine Co. let contract grading 2 mi. Pacific Highway between Grants Pass and Jackson Co. line to A. Anderson, Grants Pass, $72,000.

★Ore., **Pendleton**—City let contract paving portion Webb St. to Warren Constr. Co., Journal Bldg., Portland, $16,030. Noted July 5.

California—State Highway Comn., Sacramento received low bids paving and grading 10.6 mi. betwen Seeley's ranch and point near Action, Los Angeles Co., from Tyron & Brain, 502 Merchants Trust Bldg., Los Angeles, $117,492; 8.7 mi. between Action and Palmdale, Los Angeles Co. from R. Rothwell, 2842 West 8th St., Los Angeles, $144,152. Noted June 28.

★Cal., **Fairfield**—Solano Co. let contract building concrete highway in Green Valley Dist. to Western Motor Draying Co., 373 Noe St., San Francisco, $75,832.

★Cal., **Los Angeles**—City let contract improving portion Bonnie Brea St. to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., $10,757.

★Cal., **Sacramento**—Bd. Superv. let contract furnishing 170,000 bbl. cement for county highway work to H. Cowell Lime & Cement Co., 2 Market St., San Francisco, $1.95 to $2.17 per bbl. according to delivery, after allowance has been made for return of sacks; furnishing sand, Pratt Building Material Co., Sacramento, $0.19 per ton.

Cal., **San Diego**—City received low bid paving 136,575 sq.ft. Sierra Vista St., asphalt, 4-in. concrete base from T. C. Breitenstein, 465 Van Wyck St., Pasadena, $15,364.

★Cal., **Stockton**—City let contract paving streets in South Stockton to Clark & Henery Constr. Co., Ochsner Bldg., San Francisco, $250,000 and Paul & Cauldwell Constr. Co. $180,000.

★Cal., **Stockton**—City let contract paving several streets in Villa addition to Federal Constr. Co., Sharon Bldg., San Francisco, $44,181.

★Que., **Marieville**—City let contract constructing cement walks to A. Codere, St. Eusebe, $10,000.

RAILWAYS—STEAM & ELECTRIC

Proposed Work

Virginia—Kentucky & Virginia R.R., branch of Louisville & Nashville R.R., making surveys line from Wise to Pound River Sect. J. L. Smith, ch. engr. constr.

Kansas—Union Pacific R.R. plans 20-mi. double tracking from Manhattan to Junction City. About $1,000,000. R. L. Huntley, 15th and Dodge St., Omaha, ch. engr.

Washington—Oregon Washington R.R. & Navigation Co. plans 4 mi. extension to North River Valley Line. S. Murray, Portland, ch. engr.

California—California Eastern & Northern R.R., incorporated with $150,000 capital stock by W. H. Smallman of San Francisco, E. L. Weber, Napa, D. R. Morgan, St. Helena, plans line from Rutherford to Monticello.

California—San Diego & Southern Ry. plans to rebuild tracks from Santee to Foster washed out by 1916 floods. About $75,-000. J. D. Spreckels, San Diego, Pres.

California — Southern Pacific R.R., San Francisco, and Salt Lake R.R. plan large terminal at Los Angeles. According to present plans Salt Lake tracks on east side of Los Angeles River will be abandoned and new tracks built on west side of river parallel to Southern Pacific tracks. The latter's tracks will be moved off Alameda St. nearer to river and numerous grade crossings will be eliminated. W. Hood, San Francisco, ch. engr. Southern Pacific R.R.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Alabama**—Muscle Shoals Traction Co. let contract 64 mi. interurban railway from Florence to Huntsville and 12 mi. branch line to Lexington to Central Constr. Co., Indianapolis.

★**Texas**—Dallas Southern Traction Co. let contract 59-mi. line from Dallas to Irving and Cleburne to Creek Constr. Co., Sapulpa, Okla. Noted June 14.

★**Oklahoma**—Atchison, Topeka & Santa Fe Ry. let contract 63 mi. line from Ralston to Owen, via Pawhuska and through oil fields, to Maney Bros. & Co., 304 Empire Bldg., Oklahoma. Noted June 7.

★**Oklahoma**—Buffalo Northwestern Co. of Buffalo let contract 52 mi. standard gauge railway, 2600 ft. pile bridge over Cimarron River and 7 small pile bridges, to Walker & Bell Constr. Co., Ft. Worth, Tex., $300,000.

★**Idaho**—Oregon-Washington R.R. & Navigation Co., Portland, let contract Pine Creek extension to Twohy Bros., Spokane and Portland, $300,000.

★**California**—Bd. Pub. Wks., San Francisco, let contract Municipal Ry. unit through Twin Peeks tunnel to Eaton & Smith, 407 11th St., San Francisco, $81,000. Noted July 5.

EXCAVATION AND DREDGING

Proposed Work

N. Y., Buffalo—Dredging—City preparing plans dredging lands between Buffalo River and City ship canal to depth of 23 ft., to extend and enlarge city harbor G. H. Norton, city engr.

La., Crowley — Drainage — Arcadia Co. Comrs. created new drainage district in 4th Ward. Bonds for $60,000 to be voted for project.

Minn., St. Cloud — (Official) — Ditch—N. Thomey, co. aud., received no bids for Co. Ditch No. 41, requiring 7764 cu.yd. excav. and furnishing and laying 8850 ft. of 12-in. tile, 1 24-in. drain head and 1 10-ft. 16-in. terminal box. Noted June 21.

Cal., Dos Palos—Irrigation—City to organize irrigation district to be known as Tierra Loma Irrigation Dist., involving 92,000 acres, 52 mi. canal, 1 mi. tunnel through mountains, 288 mi. 1 ft. laterals and meters at all section lines. Water will be taken from San Joaquin River. About $300,000. D. M. Steyer, South Dos Palos, chn.

Cal., Stockton—Irrigation—West Side Irrigation Dist. sold $590,000 bonds for irrigation project. W. G. Hunter, engr.

BIDS DESIRED

O., Portsmouth—(Official)—Reclamation—Until Aug. 10 by Bd. Co. Comrs. for flood defense system to reclaim about 100 acres, plans involve change of channel of Scioto River at point north of Lucasville Bridge, 76,893 cu.yd. excava. and 18,625 ft. piling. S. D. Eckhart, aud. and clk. Noted Apr. 19.

Ia., Mason City—Drainage—Until Aug. 6, by G. E. Frost, aud. Cerro Gordo Co. building D. D. No. 51; Main line, Sect. 1 involves 12,930 ft. 10-, 12-, 14, 15-, 16-, 20-, 22-, 24-, 26-in. tile; Sect. 2 including Laterals Nos. 2B, 2C, 3, 3A, 3B, 4, 4½, 4¾, 5, 6, 6A, 6½, 7, 8, 9, 10, 16,950 ft. 6-, 7-, 8-, 9-, 10- and 12-in. tile.

Ia., Sibley—Drainage—Until Aug. 13, by Bd. Supervs. Osceola Co. building D. D. No. 37, involving 1900-ft. open ditch containing 2500 cu.yd., 56,450 ft. 6- to 30-in. tile, bulkheads, inlets, etc. About $32,000. D. W Clayton, aud.

Minn., Faribault—Ditch—Until Aug. 17, by Comrs. Rice Co., digging and building Co. Ditch No. 12, involving 51,300 lin.ft. open ditch and removing 176,790 cu.yd. earth, temporary bridges, concrete waterfall, extending foundation walls of highway bridge, cost $23,274; furnishing and laying 31,300 lin.ft. tile including trenching, backfilling end walls, $9134.

Minn., Mankato—Until Aug. 9, by C. L. Kennedy, co. aud., building Co. Ditch No. 47 involving 42,650 ft. 8- to 34-in. tile, 1000 cu.yd. cleanout work, 6-ft. bottom.

Minn., St. Cloud—Ditch—Until Oct. 2, by Stearns Co., building Co. Ditch No. 40 involving 18,769 cu.yds. About $12,899. N. Thomey, aud. Noted July 5.

Mo., Jefferson City—Excavation—Until Aug. 7, by Cole Co., grading and excavating solid rock ditches, Sect. 20, Twp. 43. E. F. Harding, co. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ky., Calhoun** — (Official) — Drainage — Bd. Drainage Comrs. let contract D.D. No 7 to J. N. Florgy, Owensville, $14,900. Noted July 12.

★**Ky., Louisville** — Ditch — Jefferson Co. let contract improving Big Ditch to T. B. Miller & Sons Co., $30,420.

★**Tenn., Huntingdon—Reclamation**—Carroll Co. D.D. No. 1 let contract for ditches and canals to reclaim 12,500 acres, involving 1,226,000 cu.yd. excava., to Canal Constr. Co., 189 West Madison St., Chicago, 8¼c. per cu.yd. Noted July 5.

★**Ind., Auburn**—Ditch—De Kalb Co. let contract 7 mi. dredge ditch known as David Lein drain, Fairfield and Smithfield Twps., to W. A. Daniels, Auburn and C. A. Walb, La Grange, $12,100.

★**Ia., Mason City** — Drainage — Cerro Gordo Co. let contract drainage work, Dist. No. 53, to A. W. Dunlap, $18,529. Noted July 19.

★**Ia., Nevada**—Drainage—Story Co. let contract Drain No. 80 as follows: Tile to Macomb Sewer Tile Co., Macomb, Ill., $28,-982; open work to J. McKillip, Faribault, Minn., 19½c. per yd.; labor to Fry & Hankins, $11,533.

★**Minn., Mankato**—Ditches—Blue Earth Co. let contract Ditch No. 52, Sterling Twp., to C. C.Knudson, Blue Earth, $20,350; Ditch No. 51, Ceresco Twp., to Judson Concrete Co., Judson, $3475.

Cal., Chino—Ditch—Chino Storm Water Dist. received low bid 91,000 cu.yd. excava. for storm water ditch from Los Angeles Rock & Gravel Co., 3439 Pasadena Ave., Los Angeles, $11,830.

INDUSTRIAL WORKS

Proposed Work

Mass., New Bedford—Pairpont Co. plans 4-story, 100 x 200-ft. brick storehouse on Howland St. About $100,000.

Mass., Worcester—Burgoss Lang & Co., 201 Sears Bldg., Boston, plans 8-story, 60 x 250 ft. plant on Central and Commercial Sts. Monks & Johnson, 78 Devonshire St., Boston, archts.

N. Y., Buffalo — Curtiss Aeroplane Co., 1738 Elmwood Ave., plans new additions to plant on Elmwood Ave.

N. J., Jersey City—Ntl. Storage Co., Communipaw Ave., plans storage warehouse in South Cove Sect. About $50,000.

N. J., Newark—Federal Shipbuilding Co., Trenton, has purchased 68 acres land on Newark meadows and will erect shipbuilding plant. About $3,000,000. E. H. Gray, United States Steel Corp., interested.

Pa., Point Breeze—(Phila. P. O.)—American Refining Co., 112 North Broad St., Phila., plans rebuilding oil plant recently destroyed by fire with loss of $400,000. J. W. Van Dyke, pres.

Pa., Temple — Temple Malleable Iron & Steel Co. plans 10-brick, stone and concrete foundry buildings. F. O. Case, Peoples Gas Bldg., Chicago, archt.

Ga., Augusta—Grogan & O'Dowd, Jones Reynolds and 9th Sts., having plans prepared by Lawrence Constr. Co., Augusta, 200 x 250-ft. warehouse, to be built in 10 compartments each to have capacity of about 1500 bales of cotton.

Industrial Work (Continued)

O., Akron—Canton & Youngstown Ry. plans large terminal freight warehouse on Furnace St. About $1,000,000. J. A. Donahey, Akron, ch. engr.

O., Cincinnati—Cincinnati Gas & Electric Co., 4th and Plum Sts., plans $2,500,000 bond issue for improving and extending plant.

O., Cleveland—Cleveland Macaroni Co., 7275 Wentworth Ave., plans 3-story, 130 x 201-ft. addition to plant. About $60,000.

O., Cleveland—Fen Far Co., 2163-71 East 9th St. plans 2-story factory, garage and repair shop. About $110,000. F. C. Warner, Hippodrome Bldg., archt.

O., Cleveland — W. McClellan File Co., 3444 Hamilton Ave., N. E., plans 2- and 3-story, 32 x 190-ft. plant. About $130,000. Briggs & Nelson, Rose Bldg., archts.

Ind., Goshen—Studebaker Corp., Administration Bldg., South Bend, plans forging and heating plant here. About $150,000.

Ind., Richmond — Richmond Commercial Club plans to build incubator factory. About $50,000.

Ill., Chicago—Felt & Tarranf Co., 1717 North Paulina St., plans 5-story brick warehouse. About $60,000. L. G. Haulberg, archt.

Ill., Chicago—Mark Co., 103 East Front St., plans to build large steel plant at East Chicago. About $6,000,000.

Ill., Rock Island—Armour & Co., 105 Rock Island St., plans addition to plant, Front and Rock Island Sts. About $100,000.

Minn., Duluth—Minnesota Steel Co., Gory St., plans new buildings. About $2,000,000.

S. D., Huron — Farmers' Coöperative Packing Co. plans to build rein.-con. packing plant here. About $450,000.

Tex., Memphis—Memphis Cotton Oil Co., Memphis, has increased its capital stock from $75,000 to $200,000 and plans to enlarge plant. About $125,000.

Cal., Long Beach — Merchants Marine Constr. Co., 1st Natl. Bank Bldg., plans shipbuilding plant on inner harbor. About $500,000.

Cal., Los Angeles—Southern California Edison Co., 129 East 4th St., plans to spend $10,000,000 for extending and improving its power developing and distribution system. The company will apply to the State R.R. Comn. for permission to issue this amount of stock.

Que., Chambly Canton—Canadian Leatherboard Co. plans to build plant here. About $250,000.

Que., St. Lambert—Dominion Textile Co., 112 St. James St., Montreal, plans textile plant here. About $60,000.

Ont., Hamilton—Canada Screw Co., 334 Wellington St., W., plans addition to plant. About $100,000.

Ont., Strathroy—Strathroy Canning Co. plans rein.-con. and brick factory. About $200,000. T. Dunn, mgr.

Ont., Toronto — Willys-Overland, Ltd., Weston Rd., will build plant, brick and concrete. About $60,000.

B. C., Vancouver—Cotton Co., Ltd., plans shipbuilding plant at False Creek. About $100,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Boston Wharf Co., 259 Summer St., let contract 7-story warehouse on Midway St., South Boston, to W. F. Kearns Co., Albany St., Cambridge. About $130,000.

Mass., Boston—Burgess Lang & Co., 201 Sears Bldg., received bids for new 4-story, 30 x 200-ft. brick and concrete plant and addition on Brighton St. from W. M. Bailey Co., 88 Broad St., I. F. Woodbury & Sons Co., 185 Summer St., G. A. Fuller Co., 131 State St., R. H. Howes Constr. Co., 105 West 40th St., New York and J. T. Scully, 1st St. E., Cambridge.

★**Mass., Worcester** — Consolidated Rendering Co., 49 North Market St., Boston, let contract 3-story, 50 x 164-ft. brick and rein.-con. plant to G. A. Fuller Co., 1110 Park Bldg. About $50,000.

★**N. Y., S. I.—Mariners Harbor**—Staten Island Shipbuilding Co., 1983 Richmond Terrace, Port Richmond, let contract machine shop, boiler shop and tool room to J. Milnes, Port Richmond.

★**N. J., Jersey City**—United Realty Co., c/o L. S. Beardsley, 38 West 32nd St., New York City, archts., let contract 7-story, 100 x 100-ft. factory addition on Provost and Bay Sts. to Turner Constr. Co., 244 Madison Ave.

★**N. J., Newark**—Aluminum Goods Mfg. Co., Springfield Ave., let contract 6-story, 100 x 260-ft. factory on Ridgewood St., to W. W. Oeflein, Manitowoc, Wis.

★**Md., Baltimore**—Baltimore Drydock & Shipbuilding Co. let contract office building and warehouse on Locust Point to West Constr. Co., Amer. Bldg. About $50,000.

★**O., Cleveland**—A. & B. Realty Co., 4500 Euclid Ave., let contract, 4-story, 82 x 192-ft., rein.-con. garage on Euclid Ave. and 46th St. to J. C. Gloyd Constr. Co., Hippodrome Annex. About $100,000. Noted July 19.

★**O., Cleveland**—American Express Co., Lakeside Ave. and East 17th St., let contract 2-story, 116 x 132-ft. addition to garage to Craig Curtiss Co., Guardian Bldg. About $120,000.

★**O., Cleveland**—Cleveland Electric Illuminating Co. let contract brick, steel and reincon. power plant, 720 East 20th St., to Turner Constr. Co., 244 Madison Ave., New York City, $100,000.

★**Ind., Indianapolis** — Pennsylvania R.R. Broad St. Sta., Phila., let contract 150 x 300-ft. rein.-con. roundhouse to Alliance Constr. Co. About $120,000.

BUILDINGS

Proposed Work

Conn., Westport—School—Bd. Educ. having plans prepared, 2-story, 60 x 115 ft. at Myrtle Ave. About $65,000. P. N. Sunderland, 7 Spring St., Danbury, archt.

N. Y., New York—Theater and Store—E. Higgin, 1 Madison Ave., plans, between 94th and 95th Sts. About $200,000. G. Keister, 56 West 45th St., archt.

N. Y., Potsdam — Normal School — Bd. Educ. soon receives bids. About $275,000.

N. Y., Queens—School—Bd. Educ. plans 2 additions to Bryant School. About $350,000.

N. J., Asbury Park—Hotel and Convention Hall—Chamber of Commerce plans hotel and convention hall to occupy 1 block About $1,000,000. Address J. D. Carton, 505 2nd Ave.

N. J., Jersey City — Terminal — City Comrs. plan to build. About $1,038,000. Address G. F. Brensinger, 75 Montgomery Ave.

N. J., Newark—Denison University plans rebuilding and extending several buildings. About $1,000,000.

N. J., Princeton—Princeton University having plans prepared for several new buildings. Day & Klauder, 925 Chestnut St., Phila., archts. Address R. M. Anderson, 275 Nassau St.

N. J., Trenton—School—Bd. Educ. Hamilton Twp. plans 2-story, 85 x 122 ft. on Greenwood Ave. W. W. Slack & Son, St. Regis Bldg., archt.

Pa., Chester—High School—Bd. Educ. plans, 3-story, stone. About $400,000. C. S. Adams, 1509 Arch St., Phila., archt.

Pa., Fairview—Wards, etc.—State Commission for Treatment of Criminal Insane plans to build. About $80,000. H. F. Walton, 284 City Hall, pres., and J. C. M. Shirk, 421 Chestnut St., archt., both of Phila.

Pa., Glenside—Club House—Lulu Temple Country Club will build, 2-story, 52 x 204-ft. About $150,000. C. T. Martin, c/o Kensington Trust Co., Kensington and Allegheny Aves., pres., and H. W. Castor, Stephen Girard Bldg., archt., both of Phila.

Pa., Holmesburg—House of Correction—City plans brick and concrete addition. About $90,000. C. E. Oeschlager, Harrison Bldg., Phila., archt.

Pa., Miners Mills—School—Bd. Educ. plans 2 new buildings. About $100,000. P. Mavock, secy. A. L. Reilly, Bennett Bldg., Wilkes-Barre, archt.

Pa., Phila.—Office and Store—Cunningham Piano Co., 50th and Parkside Sts., having plans prepared, 10-story, brick, concrete and steel, at 1312-14 Chestnut St. A. J. Sauer & Co., 1114 Chestnut St., archts.

Pa., Pittsburgh—Hospital—Mercy Hospital, Pride and Vickory Sts., plans 2-story addition. About $89,000.

Md., Baltimore — Church — University Baptist Church plans new building on Charles St. and Greenway Ave. About $175,000. W. M. McCormick, Baltimore Commercial Bank, chn. bldg. com. M. A. Long, Baltimore & Ohio Bldg., archt.

Md., Hagerstown—Y. M. C. A. receives bids about Sept. 1, for 2- and 4-story, 80 x 195-ft. About $150,000. J. C. Byron, Negley Bldg., chm. bldg. com. H. E. Yessler, 17 Hamilton Row and M. A. Kounts, Negley Bldg., archts. Noted June 21.

Wash., D. C.—Home Savings Bank lets contract for 6-story, 35 x 70-ft. addition. About $100,000. B. F. Gaul, 6th and Massachusetts Aves., N. W., pres. C. Waggaman, 1211 Connecticut Ave., archt.

Wash., D. C.—Club—(Official)—Washington Athletic Club receives bids about Aug. 10, 12-story, 133 x 150-ft. About $65,000. Milburn, Heister & Co., Union Savings Bank Bldg., archts. Noted July 19.

Wash., D. C.—Recreation Hall—Knights of Columbus, c/o L. O'Horn, Woodward Bldg., had plans prepared, 1-story, 60 x 100-ft. About $200,000.

W. Va., Charleston—Hotel—Holley Hotel plans 4-story addition. About $50,000. E. Ern, Quarrier St., mgr. C. C. & E. A. Weber, Citizens Bldg., Cincinnati, archts.

W. Va., Keyser—State Bd. Control plans replacing University of West Virginia building recently destroyed by fire. About $120,000. P. A. Davis, 1713 Sansome St., Phila., archt.

W. Va., Lindsey—Dormitory—Lindsey Institute plans, 3-story, near Eoff St. About $50,000.

Miss., Grenada — Church — University Baptist Congregation plans church, parsonage and Sunday-School. About $175,000. W. M. McCormick, Baltimore Commercial Bank, chn. bldg. com.

Miss., Jackson—Dormitory—Millsap College having plans prepared by H. N. Austin, archt., Century Bldg. About $65,000.

La., Merryville—High School—Bd. Educ. plans election August 1, to vote on $70,000 bond issue to build high school. Address President of School Bd.

Tenn., Nashville—City plans election to vote on following bond issues: Fire hall, $55,000; hospital, $45,000; library, $125,000. Address J. H. Faucette, City Hall, mayor.

Tenn., Nashville—School—City plans to vote, in September, on $125,000 bond issue for school. Address R. Ewing, mayor.

Ky., Lexington — Fayette Turberculosis Sanatorium plans to build. About $55,000.

Ky., Paducah—Hospital—Illinois Central R.R. plans rebuilding hospital recently destroyed by fire. About $50,000 to $75,000. S. Baldwin, 135 East 11th Pl., Chicago, ch. engr.

O., Akron — Parish House — St. Pauls Episcopal Church soon receives bids. 2-story, 40 x 300-ft. About $75,000. F. Sherman, 58 North Forge St., pastor. F. L. Packard, 1212 Hayden Bldg., Columbus, archt.

O., Cleveland — School — Holy Family Congregation plans, brick, at 3855 East 131st St. About $50,000. W. Koehl, 906 Park Bldg., archt.

O., Columbus—Club House—Ohio State University soon lets contract. About $150,000. J. N. Bradford, Hayden Bldg., archt.

O., Dayton — Church — Beulah Baptist Church plans to build on Kercheval and McClellan Aves. About $50,000. G. G. Laughlin, pastor.

O., Dayton — Office — Germania Bldg., Assn. having plans prepared by Peters, Hermann & Brown, archts., Reibold Bldg., new building at 5th and Main Sts.

Mich., Grand Rapids—Nurses' Home—Hackley Hospital, Clinton St., having plans prepared by H. H. Weemhoff, archt., Murray Bldg., 72 x 120-ft. About $65,000.

Mich., Highland Park — Hospital — City plans. About $250,000 available. G. W. Graves, 120 Oregon Ave., Detroit, archt.

Ill., Chicago — Hotel — Kercher Hotel & Bath Co. having plans prepared, 10-story, 80 x 170-ft., at 410-16 Wabash Ave. About $750,000.

Ill., Park Ridge—Church—Park Ridge Methodist Congregation plans to build. About $50,000. F. C. Jorgeson, chm. bldg. com. C. A. Eckstrom, 5 North LaSalle St., Chicago, archt.

Ill., Rock Island — Hospital — St. Anthony's Hospital had plans prepared by H. B. Dox, archt., 301 Powell Bldg., Peoria. Bids soon. About $200,000.

Wis., Madison—Infirmary—University of Wisconsin plans to build. About $50,000. M. E. McGaffrey, University Administration Bldg., secy. A. Peabody, Capitol Bldg., archt.

Wis., Madison—Theater—Finn & Heiman, 104 Michigan Ave., Chicago, having plans prepared by G. Rapp, archt., 69 West Washington St., Chicago. About $75,000.

Buildings (Continued)

Wis., Milwaukee—Church—Holy Ghost Church plans, 68 x 172 ft. About $59,000. Rev. C. M. Grobschmidt, R.R. No. 1, Sta. D., Nicholson Rd., pastor.

Wis., Wauwatosa—Temple — (Official) — Wauwatosa Lodge No. 267 receiving bids about Aug. 10. F. A. Stevens, chn. bldg. com. Leenhouts & Guthrie, 301-404 Jefferson St., Milwaukee, archts. Noted July 19.

Ia., Des Moines—Natatorium—City plans 2-story natatorium, swimming and wading pools. About $200,000. F. E. Wetherell, Youngerman Bldg., archt.

Ia., Gordon—School—City voted on $60,000 bond issue to build school.

Ia., Manly — Hospital — Polk Co. plans election Oct. 15 to vote $100,000 bond issue to build hospital. F. J. Alber, aud.

Ia., Sioux City—Church—Trinity Lutheran Congregation having plans prepared by Buettler & Arnold, archts., 610 Security Bank Bldg., 74 x 113-ft. brick and stone. About $75,000.

Ia., Sioux City—Church—First Baptist Congregation having plans prepared by Beuttler & Arnold, archts., 610 Security Bank Bldg., 66 x 130-ft. brick and Bedford stone. About $85,000.

Ia., Sioux City—Home—Woodbury Co. plans, about $100,000. W. L. Steele, 502 United Bank Bldg., archt.

Ia., Ventura—School—City plans election Aug. 20 in Consolidated Dist. to vote on $50,000 bond issue to build school.

Kan., Peabody—School—Bd. Educ. plans, 2-story, 65 x 110-ft. About $50,000. A. Kent, secy. G. W. Van Meter, 604 Caldwell Murdock Bldg., Wichita, archt.

Kan., Wichita—Church—First Methodist Episcopal Church soon receives bids, 1-story, 100 x 130-ft. About $85,000. H. Imboden, chm. J. Gaisford, Goodwyn Inst. Bldg., Memphis, archt.

Kan., Wichita—School— Bd. Educ. receives bids about Nov. 1, for 2-story, 100 x 155-ft. intermediate school. About $120,000.

Neb., Norfolk—Hospital—Drs. Campbell & Baker plan, 3-story, 34 x 82 ft., brick, stone and rein.-con. About $60,000. J. T. Allen, 224 Brandies Theatre Bldg., Omaha, archt.

Neb., Omaha — Laboratory — Nebraska Medical College plans, 4-story, 101 x 101 ft., on 42nd and Dewey Aves. About $110,000. J. Latenser & Sons, Baxton Blk., archts.

N. D., Fargo—School—Bd. Educ. plans. About $200,000. W. B. Ittner, Bd. Educ. Bldg., St. Louis, archt.

Mont., Great Falls—Office—Great Falls Brick & Tile Co. plans new building. About $100,000. G. H. Shanley, 1st Natl. Bank Bldg., archt., soon receives bids.

Mo., Kansas City — School — Sweeney Auto School plans, 10-story, 102 x 120-ft. brick and rein.-con. About $180,000. E. J. Sweeney, 1110 East 15th St., pres. Keene & Simpson, 400 Reliance Bldg., archts.

Mo., Kansas City — Church — Third Church of Christ, Scientist plans. About $100,000. Address The Reader.

Mo., St. Louis—Hospital—City will vote Nov. 6 on $150,000 bond issue to build Koch Hospital. Address E. Glenman, City Hall Bldg., mayor.

Tex., El Paso—Church—Calvary Houston sq. Baptist Church plans, 3-story, 90 x 120-ft. About $100,000. A. H. Thorman, 425 1st Natl. Bank Bldg., archt.

Tex., Ft. Worth—Station—Texas & Pacific Ry. plans, steel, concrete and stone. About $800,000. H. Chamberlin, Dallas, ch. engr.

Tex., Houston—Mausoleum—Mausoleum & Monument Constr. Co., Carter Bldg., plans to build. About $200,000 to $500,000.

Okla., Miami—Bank and Office—B. T. Hainer and A. James plan, 4- or 5-story, 75 x 120-ft. brick and rein.-con. About $180,000. J. W. Roberts, Claremore, archt.

Okla., Oklahoma—Hospital—City Comrs. soon let contract to build hospital as addition to University Medical School. About $200,000. E. Overholser, mayor.

Okla., Oklahoma—Station—St. Louis & San Francisco Ry. plans, 2-story brick, stone and reir.-con. About $300,000. G. H. Schleyer, Oklahoma, genl. mgr. Lenanbaum, Malx & Vegeant, archts., 175 West Jackson Blvd., Chicago, receive bids about Aug. 30.

Wash., Olympia—High School—Bd. Educ. plans to build here. Stephen & Stephen, New York Bl., Seattle, archts. About $100,000.

Ore., Portland — School — Dir. Cleveland Hebrew School and Institute plan to rebuild, on Portland Ave. and East 55th St. About $75,000 to $100,000.

Cal., Bakersfield—Gymnasium—Kern Co. Union High School Dist. soon lets contract, 1-story, 84 x 152-ft. About $60,000. O. L. Clarke, 422 Brower Bldg., archt.

Cal., Long Beach—Schools—City defeated $150,000 bond issue for improving schools. Noted June 21.

Cal., Los Angeles—Bd. Pub. Ser. having plans prepared for 5-story, rein.-con. and brick addition to shops and offices at 201 Rose St. About $55,000. J. Vroman, secy.

Cal., Oakland—(Official)—Almshouse and Poor Farm—Alameda Co. plans election Aug. 14 to vote on $1,000,000 bond issue for additions and improvements at almshouse and poor farm.

Cal., Turlock—High School—Bd. Educ. plans new building on Lander Ave. About $65,000.

N. B., Bathhurst—College—Sacred Heart College plans new buildings, brick. About $250,000. R. A. Frechette, 30 Bonnacord St., archt.

Ont., London—Church—Parish of Limoilou plans new brick and stone building. About $200,000. J. P. Ouellet, archt., 28 St. Famille St., soon receives bids.

BIDS DESIRED

Vt., Vergennes—Industrial School—Until Aug. 10, by Bd. Educ. F. L. Austin, 240 College St., Burlington, archt.

N. Y., Hudson Falls—(Official)—School—Until Aug. 15, by W. L. Sawyer, clk. bd. educ. About $120,000. Noted June 21.

N. Y., New York—High School—Until Aug. 8 by C. B. J. Snyder, supt. bd. educ., Park Ave. and 59th St. for completing Evander Childs High School, East 184th St. (Bronx Boro.). About $50,000.

N. J., Morristown—Hospital—Until Aug. 8, by Morristown Memorial Hospital Assn. Palmer & Hornbostle, 63 Williams St., New York City, archts. Noted May 10.

N. J., New Brunswick—School—Until Aug. 24, by Bd. Educ., 3-story, 200 x 200 ft., Livingston Ave. and Walton St. About $275,000. A. Merchant, 363 George St., archt.

La., Winnfield—Court House and Jail—Until Aug. 13, by Police Jury of Winn Parish. W. L. Stevens, White Central Bldg., New Orleans, archt.

O., Cleveland—(Official)—Library—Until Aug. 7, by C. Lorenz, secy. pub. library bd., 1375 Euclid Ave., on West 25th St. and Maplewood Ave.

O., Columbus—School—(Official)—Until Aug. 3, by Bd. Educ. Perry Twp., Franklin Co., new school, near Linworth. F. L. Packard Co., 16 East Broad St., archt.

Minn., Tower—School—Until Aug. 15, by M. Jeranson, clk. bd. educ., in School Dist. No. 9, St. Louis Co. W. T. Bray, 1200 Fidelity Bldg. Duluth, archt.

Kan., McPherson — High and Grade Schools—Until Aug. 8, by G. Nyquist, clk. bd. educ. Markgraf & Mampe, 413 Ridge Bldg., Kansas City, archts.

Tex., El Paso—Lodge—Until Sept. 10, by Scottish Rite Benevolent Assn. About $180,000. Hubbell & Greene, 619-20 North Texas Bldg., Dallas, archts.

Cal., Modesto—School—Until Aug. 22, by S. C. Nowten, clk. bd. trustees, for 3 concrete and tile buildings. About $135,000. DeRemer & Hewitt, 624 Title Insurance Bldg., Los Angeles, archts. Noted Apr. 19.

B. C. Burnaby—Studio—(Official)—Until Aug. 15, by Dominion Film Co., 412 Orpheum Bldg. About $50,000 to $75,000. Noted July 19.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Hyde Park**—High School—Bd. Educ. let contract, 3-story, 40 x 131 ft. Harvard Ave., Everett and Webster Sts., to J. Bowen, 184 Dudley St., Roxbury. About $89,990.

★**Mass., South Framingham** — Theatre, Store and Office—Trimount Theatres, Inc., c/o G. A. Giles, Cambridge, let contract 1- and 2-story, 72 x 148 ft., brick and stone, to Haynes Constr. Co., 40 Court St. About $500,000.

★**N. Y., New York City**—(Official)—Store—J. C. Davies, 149th St. and 2nd Ave., let contract, 1-story, brick, on Burnside and Jerome Aves. (Bronx Boro.) to P. Murphy, 371 East 144th St. About $50,000. Noted July 12.

★**N. J., Camden**—Wood Mfg. Co., 7th and Erie Sts., let contract 1-story, 72 x 265 ft. brick and concrete plant to Barclay White & Co., 1713 Sansom St., Phila. About $50,000.

★**Pa., Phila.**—Gorgas-Pierce Mfg. Co. let contract 5-story, 75 x 155 ft. rein.-con. warehouse at 114 East Allen St., to Turner Concrete Steel Co., 1715 Sansom St.

Fla., Jacksonville—Bd. Pub. Instruction of Duval Co. received low bids for 8-room addition to Lackawanna school from O. P. Woodcock, Trade Bldg. About $52,400.

★**La., New Orleans**—College—Newcomb Memorial College let contract for additions to G. J. Glover, Whitney Bldg. About $648,000.

★**Ky., Louisville**—First Church of Christ, Scientist, let contract, stone, steel and concrete, to Rommel Bros., 919 East Bway. About $200,000.

O., Bedford — (Official) — School — Bd. Educ. received low bids from R. G. Evans Co., Savings & Trust Bldg., Columbus, J. Kaiser & Bros Co., Elyria and Crump Eng. Co., Leader-News Bldg., Cleveland. About $50,000. Noted July 26.

★**O., Cleveland**—Hotel—Doan-Brook Co., 10702 Superior Ave., let contract, brick, at 1928 East 105th St. to Bolton-Pratt Constr. Co., Columbia Bldg. About $200,000.

★**O., Dayton**—Lodge—Dayton Aerie of Eagles No. 321 let contract, 1-story, 80 x 100-ft., to Engle & Cohn, 207 Lexington Ave. About $50,000.

★**O., Lorain**—Store and Lodge—Lorain Aerie No. 343 let contract, 4-story, 50 x 135-ft., to Stauder & Cook, 1050 9th St. About $60,000.

★**O., Martins Ferry**—School—Bd. Educ. let contract for new Elms School to C. D. Keyser, Bellaire. About $72,000. Noted July 5.

★**O., Rocky River**—School—Bd. Educ. let contract, brick, to Willing Bros., Bellevue. About $70,000. Noted June 28.

★**O., Struthers**—Church—St. Nicholas Creek Congregation let contract, 1-story, 54 x 110-ft., to L. Adavasio, Dollar Bank Bldg., Youngstown. About $60,000. Noted Apr. 26.

★**O., Warrensville**—Sanatorium—City let contract school and 3-ward buildings at Warrensville Sanatorium to Cleveland Fireproof Constr. Co., 412 Anisfield Bldg. About $78,986.

★**Ind., Decatur**—High School—Bd. Educ. let contract, 2-story, 70 x 160-ft., to W. F. Peterson, Chicago, $68,620. Noted June 21.

★**Ill., Chicago**—Hotel—T. Swanson, 701 Tacoma Bldg., let contract 7-story, brick and steel, at 412-22 Wrightwood Ave., to Olson-Carson Co., Chicago. About $50,000

★**Ill., Joliet**—Standard Paint Co., Woolworth Bldg., New York City, and Joliet, Ill., let contract 13 brick factory buildings to Hansen & Deterson Co., Joliet.

★**Wis., Osceola**—High School—Bd. Educ. let contract Linstrom & Anderson, 1493 Grand Ave., St. Paul. About $50,000.

★**Wis., Racine**—Bank and Office—Manufacturers Natl. Bank let contract to Anderson, Strandberg Co., 19 South La Salle St., Chicago. About $50,000.

★**Wis., Stevens Point**—Depot—Minneapolis, St. Paul & Sault St. Marie Ry. let contract to Withee Constr. Co., Withee, $50,000.

★**Ia., Bronson**—School—Bd. Educ. let contract, 2-story, brick and stone, to C. F. Lytle Constr. Co., Lytle Blk. About $50,000. Noted July 5.

★**Ia., Des Moines**—Hotel and Office—F. M. Hubbell & Co., Hubbell Bldg., let contract rebuilding, 3-story, brick and rein.-con., at 801-815 6th Ave. to J. C. Mardis Co., 412 Hubbell Bldg. About $50,000.

★**Ia., Sioux City**—Junior High School—Bd. Educ. let contract, 2-story, 104 x 132-ft., to N. Olen, 810 19th St. About $85,000.

★**Kan., Larned**—Court House—Pawnee Co. let contract, 4-story, 11 x 92-ft., brick, stone and rein.-con., to W. Foley, Dodge City. About $125,000. Noted June 14.

Buildings (Continued)

★**Neb., Columbus**—Store—T. Friedhof let contract, 2-story, brick and rein.-conc., to H. F. Woerth. About $65,000.

★**Mont., Livingston**—High School — Bd. Educ. let contract addition to Park Co. high school to Pew Constr. Co., Helena. About $71,000. Noted July 5.

★**Okla., Ardmore**—Hotel—Ardmore Hotel Co. let contract 6-story, 100 x 100 ft., brick, to G. W. Stiles Constr. Co., 209 LaSalle St., Chicago. About $200,000.

★**Okla., Tulsa**—Store—Commerce Bldg. Co., 2nd and Main Sts., let contract, 4-story, 43 x 140 ft. brick, steel and rein. con. to J. R. Burnside. About $75,000. Noted July 19.

★**Cal., Pasadena**—Hertel Dry Goods Co., 4147 North Raymond St., let contract, 3-story brick, on Colorado St. and Euclid Ave., to J. F. Rhodes, 415 Central Bldg., Los Angeles. About $75,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Newburyport—Post Office—J. A. Wetmore, superv. archt., treas. dept. Wash., rejected bids opened July 16. Noted July 26.

Okla., Ft. Sill—Observers' Camp—N. D. Baker, secy. war, soon lets contract observers' camp for army signal corps. About $500,000.

BIDS DESIRED

Pa., Ft. Mifflin—Chief Gunners' Quarters —Until Aug. 13, by Bureau Yards and Docks, (F. R. Harris, ch.), Navy Dept., Wash., 2-story, concrete footings, hollow terra cotta tile walls, etc. at Naval Ammunition Depot.

Pa., McKees Rocks—Post Office—Until Sept. 4, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Wash., D. C.—Torpedo Storehouse—Until Aug. 20, by Bureau Yards and Docks, (F. R. Harris, ch.) Navy Dept.

Ga., Forsyth—Post Office—Until Sept. 6, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Ga., Washington—Post Office—Until Sept. 5, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Tenn., Memphis—(Official)—Levee Work —Until Aug. 24, by Mississippi River Comn, U. S. Engr. Office, Customhouse, building 3,400,000 cu.yd. earthwork, Upper and Lower St. Francis and White River Dists.

Mich., Detroit—(Official)—Engine Shelters—Until Aug. 28, by U. S. Engr. Office, building 8 engine shelters for 4th Lock at St. Marys Falls Canal; advertised in this issue.

Mich., White River — Buildings and Launchway—Until Aug. 21, by E. P. Bertholf, capt. commandant, U. S. Coast Guard, Wash., for moving, alterations, additions and repairs to station building and launchway at Coast Guard Sta. No. 268.

Ark., Rodgers—Post Office—Until Aug. 3, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Colo., Glenwood Springs—Post Office—Until Aug. 20, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Wash., Puget Sound—(Bremerton P. O.) —Storehouse—Until Aug. 13, by Bureau Yards and Docks, (F. R. Harris, ch.), Navy Dept., Wash., at Navy Yard.

Alaska, Ketchikan—Towers—Until Aug. 13, by Light House Inspector, furnishing 2 steel towers.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Me., Ft. Fairfield—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids from W. H. Fissell & Co., 34th St. and B'way, New York City, limestone, $65,300; sandstone $68,300. Noted June 21.

★**N. Y., Mineola**—Aviation School—War Dept., Wash., let contract to Clough-Bourne Co., 101 Park Ave., New York City, cost plus percentage basis.

★**Wash., D. C.**—Cement—U. S. Engrs.' Office let contract 15,000 bbls. portland cement for Key Bridge to Security Cement & Lime Co., 807 Equitable Bldg., Baltimore, $1.81 per bbl.

Wash., D. C.—Lumber—Engr. Depot and Purch. Officer received low bids (a) 650 pieces rough heavy timber, (b) 2,765,664 ft. No. 1 common timbers, (c) 1,518,256 ft. lumber surfaced 4 sides; (d) 1641 ft. lattice strips, from J. G. Rainwater Lumber Co., Whitney Bldg., New Orleans, (a) $12,297, (b) $121,689 (c) $66,803, (d) $72.20, time 90 days; T. E. Cole Lumber Co., Phila., (b) $91,267 (c) $50,102; time 90 days.

★**Wash., D. C.**—Roads—N. D. Baker, secy. war, let contract roads at new naval base, Hampton Rds., Va., to Atlantic Bitulithic Co., Virginia Ry. & Power Bldg., Richmond, cost plus 10% basis.

★**S. C., Beaufort**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to Wise Granite & Constr. Co., Amer. Natl. Bank Bldg., Richmond, $39,945. Noted July 5.

Tenn., Gallatin—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash. received low bids from R. P. Farnsworth & Co., Owensboro, Ky., $37,500; Rock City Constr. Co., 150 4th Ave., Nashville, $39,630; R. K. Stewart & Son, South Boston, Va., $40,060. Noted June 28.

★**Ill., Hoopeston**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to Clarke Constr. Co., 306 Temple Bldg., Danville, $53,699. Noted July 26.

★**Neb., Omaha**—Barracks—N. D. Baker, secy. war, let contract to E. A. Wickham, 19 Scott St., Council Bluffs, $200,000.

Tex., Vernon—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids, from W. D. Lovell, Minneapolis, $41,700; Johnson Constr. Co., Fargo, N. D., $44,997; J. F. McKnight, Hallettsville, $45,500. Noted June 28.

★**Okla., Ft. Sills**—Encampment — N. D. Baker, secy. war let contract National Guard encampment to Selden Breck Constr. Co., Fullerton Bldg., St. Louis.

★**Cal., Linda Vista**—(San Jose P. O.)—Army Cantonment—N. D. Baker, secy. war, let contract to W. E. Hampton Co., Trust & Savings Bldg., Los Angeles. Cost of work has been variously estimated from $800,000 to $1,500,000.

MISCELLANEOUS

Proposed Work

Transmission Line—Milford, Me.—Bangor Ry. & Electric Co. plans to extend transmission line from Milford to Lincoln, about 33 mi., and from Somerville to Southwest Harbor, about 12 mi. E. M. Graham, 84 Harlow St., Bangor, ch. engr.

★**Dam—New Brunswick, N. J.**—City let contract for concrete dam involving 1200 cu.yd. concrete and 3 30-in. sluice gates to B. G. Coon Constr. Co., Luzerne, Pa.

Bulkhead, etc.—Stone Harbor, N. J.—Council to sell $13,500 bonds Aug. 7 for new bulkhead and improvements at Berkely Point, jetties at great channel and repairs to municipal pier. C. P. Bower, chn.

Transmission Line—Munhall, Pa.—Carnegie Steel Co., Carnegie Bldg., Pittsburgh, plans to build electric transmission line from Munhall to Rankin to connect Homestead steel works and Carrie furnaces.

Incinerating Plant — Sharpsville, Pa.—Sewer Com. preparing plans.

Dam—Yorkhaven, Pa.—Yorkhaven Water & Power Co. will build dam over eastern channel of Susquehanna River by day labor under supervision of R. W. Robinson, engr., Roundbottom, Va.

Transmission Line — Norton, Va. — Old Dominion Power Co. plans to build 25-mi. transmission line from Norton to St. Paul and Tom's Creek to supply coal operating companies.

Transmission Lines—Fairmont, W. Va.—Monongahela Valley Traction Co. made surveys for 30-mi. electric transmission lines to furnish energy to various coal mines; a mine 20 mi. long will extend from Ocean Mine near Clarksburg via Bridgeport, Rosemont, Flemington, Astor and to Galloway to supply Simpson Creek Coal Co. and other companies, also line from Riverside toward Morganstown to supply Lehigh Mines, operated by Jamison Coal & Coke Co. and mines of South Pittsburgh Coal Co. and Antler Coal Co., 10 mi. long. E. B. Moore, Fairmont, ch. engr.

Levee Work—Vicksburg, Miss.—Warren, Yazoo, Holmes, Issaquena and Sharkey Cos. plan new levee to protect 1,000,000 acres fertile land. Greenville Levee Bd. to appropriate $200,000 toward cost, Clarksdale Dist. like amount and Federal Government, $800,000. Address Co. Clk., Vicksburg.

Breakwater—Kenosha, Wis.—Council appropriated $45,000 to build breakwater from Garfield St. to Eichelman Park. B. C. Brennan, city engr.

Levee Work—Muscatine, Ia.—(Official)—Muscatine and Louisa Cos. retained Elliott & Harman Engr. Co., 144 Fredonia Ave., Peoria, Ill., to prepare plans for 3 mi. levee work along Mississippi River.

Incinerator — Oklahoma, Okla. — City plans election to vote on bonds to build incinerator. G. V. McClure, city engr.

Dock — Georgetown, Wash. — King Co. Comrs. Seattle, having plans prepared for 60 x 600-ft. dock, near Georgetown. S. Humes, co. engr.

Elimination Grade Crossings—San Francisco, Cal.—See "Railways."

River Improvements—Santa Ana, Cal.—Fullerton-Orangethorpe Storm Water Protection Dist. plans to improve 24 mi. along river front, involving 147,000 cu.yd. embankment, 887 cu.yd. concrete, 55,475 lb. steel, 910 lin.ft. culvert. W. J. Renshaw, engr.

BIDS DESIRED

Incinerator—Brookline, Mass.—Until Aug. 8, by Public Works Bd. Health for incinerator on Hammond St.

Incinerator—(Official) — Paducah, Ky. — Until Aug. 25, by F. N. Burns, mayor, for 2 unit incinerator, 20 ton capacity in 1 hour operation. L. A. Washington, city engr. Noted July 26.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Tunnel Improvement—Boston, Mass.**—B. L. Beal, secy. Boston Transit Comn., let contract 4100 sq.yd. ribbed tile on walls, etc. on Bway. and Andrews Sq. Sta. to Galassi Mosaic & Tile Co., South Ash St., $28,558. Noted July 26.

★**Station Finish—New York, N. Y.**—Pub. Ser. Comn. let contract for 34th St. and Times Sq. stations to A. W. King & Co., Inc., 81 East 125th St., $178,172.

★**Subway—Pa., Phila.**—(Official)—W. S. Twining, dir. dept. city transit, let contract 3 sections Delivery Loop Subway with work appurtenant thereto as follows: Contract No. 201, 203, 103, 204 to Keystone State Constr. Co., 704-709 Pennsylvania Bldg.; Contract No. 202 to Smith, Hauser & Mac Isaac, Inc., 18 East 41st St., New York City; Contract No. 104 to Phila. Subway Constr. Co., 712 Lincoln Bldg.

★**Track Floor, etc.—Phila., Pa.**—(Official)—Frankfort Elevated Ry. let contract No. 528 involving concrete track floor, floor drains and footwalks in Front St., Kensington Ave. and Frankford Ave. from Callowhill to Dyre St. (grouping contracts No. 526 and 527) to Keystone State Constr. Co., Penn. Bldg., Phila., $909,400. Noted July 12.

★**Rip Rap—Richmond, Cal.**—City let contract rip rap on inner harbor bulkhead to Healy-Tibbitts Constr. Co., San Francisco, $22,620.

Government Will Require Warehouses—A great number of warehouses at various points will have to be built by the Government very soon, according to a recent report in the Official Bulletin. These are mainly to be at ocean terminals to take care of the congestion of supplies across the Atlantic, although some of them probably will be at inland centers where railway communication permits the assembly of goods for further transportation to the ocean terminals. This work is in charge of the Storage Committee of the General Munitions Board, of which M. L. Cooke is chairman.

This committee is endeavoring to introduce system into distribution methods in an effort to eliminate congestion, delay and double haulage, factors that seriously embarrass transportation systems in European countries engaged in the world war. Its aim is to simplify assemblage and storage of supplies required by the army or otherwise necessary to the prosecution of the war. In addition to the construction of warehouses, the committee will urge upon manufacturers the advisability of storage at the point of fabrication, where they will wait requisition for forwarding. It is proposed to establish points of local assembling at which goods in less than carload lots will be temporarily stored and full carloads made up for shipment.

Vancouver To Have New Shipyard—The Griswold-O'Donnell Co., of Portland, Ore., is the latest shipbuilding firm to be organized, and it will erect a plant on the waterfront at Vancouver to have four ways. Plans for machinery to accommodate eight ways have been completed, and the second unit will likely be put in shortly. Room is also leased for a sawmill to accompany the yard.